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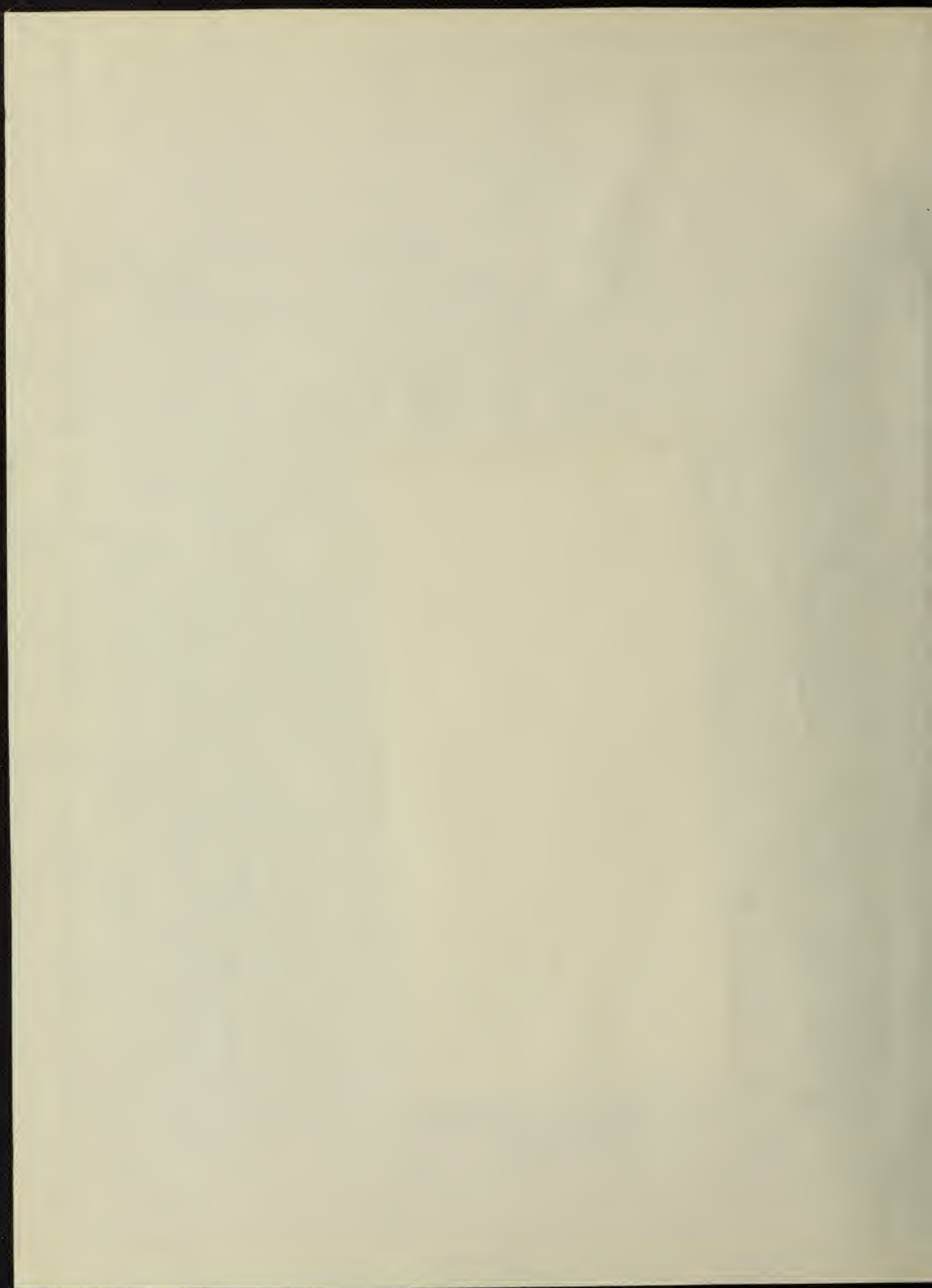
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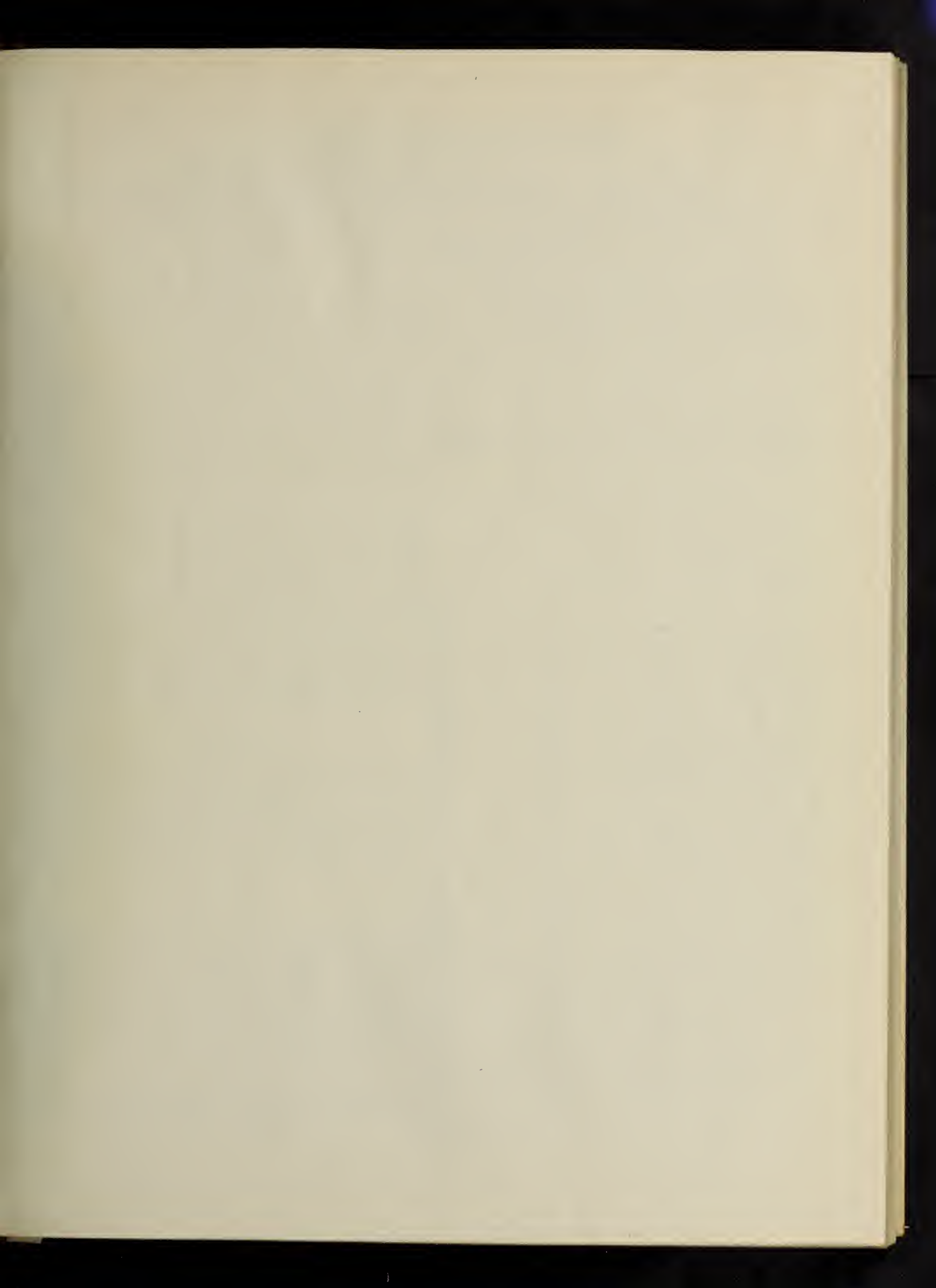
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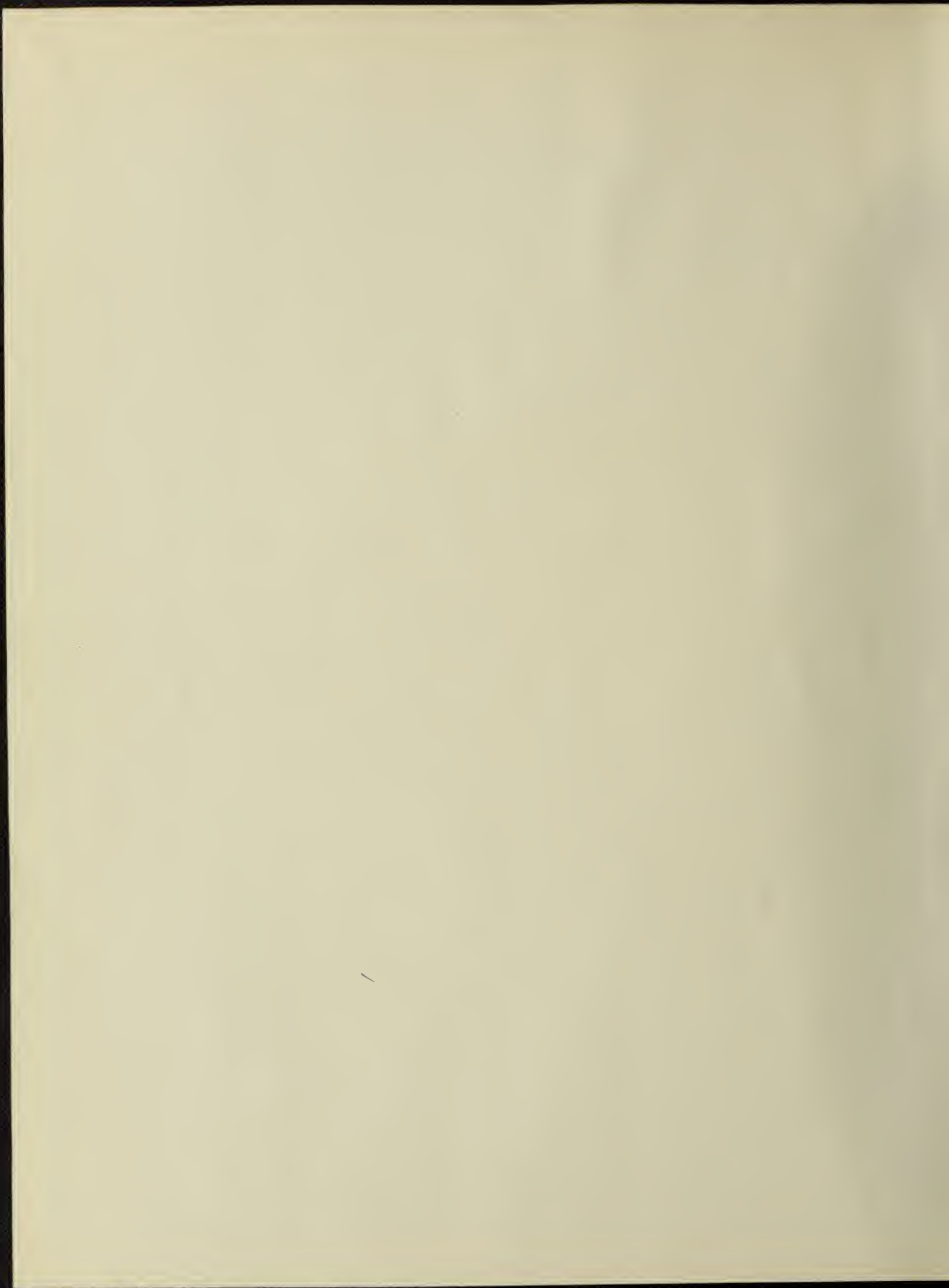
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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

Vol. XLVIII.

JANUARY, 1943.

No. 1

GENERAL SUMMARY.

Temperature averaged slightly below normal at most stations, though a few showed plus departures. The main cold periods were 13-14th and 20th-22d. Only two stations, however, recorded temperatures below zero, which is unusual for January. This was also in contrast to the preceding month of December, when most stations recorded sub-zero readings and one registered a temperature of 17° below zero. The period 15-18th was unusually mild, as was also the 24-25th, but there was nothing near record temperatures for the season.

Precipitation was below normal in all sections of the State, though six stations had slightly more than normal amounts. Distribution was more uniform over the State than is usually the case. Most of the precipitation occurred in the last half of the month, the main feature being the heavy snow and sleet storm which began late on the 27th and continued all day of the 28th. The accumulated depths ranged from about six inches in the central to ten inches in the northern part of the State, and precipitation generally from 1.50 to 2.00 inches. In the extreme southern and southeastern sections, however, the precipitation was all in the form of rain. Traffic was severely impeded on the 28-29th. Dense fogs were numerous and sunshine was considerably less than normal. Strong winds occurred on the 19th and 28th, but no serious damage was reported.

TEMPERATURE.

The monthly mean temperature for the State, as computed from observations of 38 stations, was 30.3°, which was 0.6° below normal. The highest temperature was 63° at Pleasantville on the 16th, and the lowest, -2°, at Layton on the 9th. The highest monthly mean temperature was 35.9° at Cape May, and the lowest, 25.0° at Newton. The temperature departure from the normal for the year, 1943, to date, for the State is -0.6°.

PRECIPITATION.

The mean total precipitation for the State, as computed from observations of 58 stations, was 2.97 inches, which was 0.68 inch below normal. The average total snowfall at 24 selected stations was 7.3 inches, which was just normal. The greatest monthly precipitation was 4.72 inches, at Belvidere, and the least, 1.65 inches, at Toms River. The greatest amount of precipitation in any 24 consecutive hours was 1.98 inches at Ridgefield on the 28th. The average for the Highlands was 3.28 inches; for the Red Sandstone Plain 2.86 inches; for the Southern Interior 2.53 inches; and for the Sea Coast 3.08 inches.

The precipitation accumulated departure from the normal for the year 1942, to date, by sections, is: The Highlands, -0.15 inches; Red Sandstone Plain, -0.72 inches; Southern Interior, -1.10 inches; Sea Coast, -0.66 inches.

DATES OF MISCELLANEOUS PHENOMENA.

DENSE FOG: 3, 17, 18, 19, 25.

SLEET: 16, 18, 19, 26, 27, 28, 29, 30.

THUNDERSTORMS: 18, 28.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.59	20	29.49	15	16.5	47	ne.	28	73	62	69	42	948
Long Branch.....	30.56	29	29.44	15	13.5	57	nw.	19	72	64	62	45	1048
Trenton.....	30.56	29	29.44	15	9.7	31	nw.	4	70	..	65	33	1057

COMPARATIVE DATA FOR JANUARY.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	30.8	67	0	4.08	..	..	..	..
1886.....	27.3	60	-10	4.47	..	..	..	..
1887.....	28.4	67	-6	3.86	..	10	..	..
1888.....	25.4	59	-12	4.77	..	9	..	..
1889.....	36.2	60	8	5.68	..	9	..	..
1890.....	41.3	60	12	2.29	..	10	..	..
1891.....	34.2	59	10	6.57	..	10	10	11
1892.....	29.9	67	-6	5.13	..	10	10	9
1893.....	21.6	54	-21	3.04	..	9	10	10
1894.....	34.2	61	-4	2.34	..	11	10	8
1895.....	28.1	64	-4	4.66	9.7	11	10	10
1896.....	28.6	61	-7	1.66	..	5	12	10
1897.....	29.0	64	-6	2.80	..	9	11	8
1898.....	32.6	64	-10	4.20	9.7	11	9	11
1899.....	30.1	60	-21	4.01	6.0	11	13	8
1900.....	32.4	64	-5	3.85	2.6	10	11	11
1901.....	30.4	63	-6	2.52	5.4	9	11	9
1902.....	28.4	58	-5	3.28	8.6	10	12	9
1903.....	30.4	57	-5	3.90	6.4	10	10	10
1904.....	23.3	58	-34	3.09	15.6	10	13	7
1905.....	27.0	60	-16	4.18	21.3	9	12	9
1906.....	36.5	74	-5	2.85	3.1	11	11	9
1907.....	31.8	71	-19	3.50	10.3	14	8	9
1908.....	31.8	60	-6	3.74	9.9	9	12	11
1909.....	33.2	69	-12	3.18	7.5	12	8	9
1910.....	29.7	54	-15	5.04	13.3	15	8	14
1911.....	33.5	63	0	3.44	3.6	14	10	7
1912.....	22.3	58	-32	2.82	13.4	13	8	12
1913.....	39.5	68	10	3.58	0.8	14	11	7
1914.....	31.9	73	-12	3.85	2.4	9	9	8
1915.....	33.5	61	3	6.55	3.4	12	11	6
1916.....	35.1	74	-2	1.50	1.9	11	11	8
1917.....	31.4	58	0	3.26	5.4	13	10	8
1918.....	20.3	56	-16	4.14	18.9	11	12	8
1919.....	34.1	62	-7	3.51	1.3	8	14	7
1920.....	23.6	53	-10	2.60	6.6	11	11	7
1921.....	33.0	63	-5	2.63	2.7	9	13	8
1922.....	27.6	57	-11	2.62	11.1	8	15	6
1923.....	30.1	66	-14	5.22	16.6	12	9	7
1924.....	32.2	65	-6	4.48	1.4	8	15	8
1925.....	27.4	59	-20	4.43	22.8	10	12	6
1926.....	30.8	63	-9	2.61	2.4	9	11	7
1927.....	29.2	70	-12	2.22	7.9	11	11	8
1928.....	32.5	65	-15	2.26	8.3	8	15	8
1929.....	30.7	67	-4	3.49	1.6	10	13	7
1930.....	31.7	72	-14	2.92	5.9	10	10	6
1931.....	31.6	64	-5	2.16	1.6	5	16	7
1932.....	42.4	76	18	4.50	1.5	13	8	17
1933.....	38.5	67	2	2.39	1.2	8	13	7
1934.....	33.6	64	-1	2.59	0.2	8	11	8
1935.....	28.2	65	-26	4.00	15.8	11	13	5
1936.....	27.2	59	-15	6.34	9.1	13	13	7
1937.....	40.3	72	9	6.30	2.2	16	6	6
1938.....	31.0	68	-19	3.64	4.0	12	10	7
1939.....	30.9	65	-10	3.98	10.2	11	11	6
1940.....	22.4	62	-13	1.95	5.6	7	16	6
1941.....	29.4	58	-7	3.47	8.8	10	12	6
1942.....	28.9	66	-23	2.98	5.5	7	13	7
1943.....	30.3	63	-2	2.97	7.3	10	10	8
Period.....	30.9	78	-34	3.65	7.3	10	11	8

Climatological Data for January, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, 01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	70	34.4	+1.9	53	17	16	20	3.55	+0.06	1.82	27-28	0.2	11	8	7	16	n.	U. S. Weather Bureau.
Barnegat City††.....	Ocean.....	36	23	31.6	.....	55	16	10	22	2.82	.....	1.33	28	.....	8	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	49	.....	.....	.....	.....	.....	.....	2.82	.....	1.33	28	.....	6	12	9	10	.....	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	1	.....	.....	.....	.....	6	15	2.33	-1.21	1.20	28	0.5	11	5	11	15	nw.	Fred Fine.
Belvidere.....	Warren.....	289	51	28.1	+0.1	49	16	10	9†	4.72	+0.96	1.86	28	16.9	12	13	4	14	.....	Miss G. S. Hixson.
Berlin.....	Camden.....	70	2	.....	.....	.....	.....	.....	.....	3.00	.....	0.95	18	.....	8	12	9	10	.....	Samuel H. McCulley.
Boonton.....	Morris.....	280	53	27.4	-0.5	52	17	8	23	3.30	-0.08	1.59	29	.....	13	8	2	21	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	60	32.6	-1.2	62	16	13	14	2.80	-0.65	1.20	28	2.0	6	10	5	16	nw.	Bennett K. Matlack
Brooklawn.....	Camden.....	30	2	.....	.....	.....	.....	.....	.....	2.96	.....	1.38	28	6.0	7	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	57	31.9	-1.3	58	16	12	14	2.71	-0.86	0.76	28	6.6	12	13	6	12	ne.	Public Service E. & G. Co.
Canoe Brook, N. J. II.....	Essex.....	180	13	27.4	-2.0	57	17	7	14	3.02	-0.85	1.68	29	.....	12	9	10	12	nw.	N. J. Water Policy Comm.
Cape May††.....	Cape May.....	17	55	35.9	+1.8	62	16	20	19†	2.88	-0.49	1.62	28	0.3	10	5	10	16	ne.	Naval Air Station.
Charlotteburg†††.....	Passaic.....	760	51	26.2	-1.3	57	25	1	14	3.16	-0.46	0.78	28	11.8	14	14	3	14	w.	Newark Water Dept
Chatham.....	Morris.....	185	39	.....	.....	.....	.....	.....	.....	2.50	-1.47	0.83	19	11.8	14	12	9	10	.....	Paul Molitor, Sr.
Chatsworth.....	Burlington.....	90	2	31.5	.....	61	16	5	14	3.25	.....	1.69	28	.....	4	6	17	8	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	30	34.8	+2.9	59	16†	15	22	2.72	-0.85	1.35	28	3.5	3	3	3	25	n.	Worthy Hitt.
Culvers Lake††.....	Sussex.....	760	42	.....	.....	.....	.....	.....	.....	2.81	-0.23	0.95	28	13.9	11	.....	.....	.....	.....	L. S. Depue.
Dover.....	Morris.....	600	59	.....	.....	.....	.....	.....	.....	2.88	-1.12	0.93	18	13.7	11	5	15	11	.....	William C. Harris
Egg Harbor City.....	Atlantic.....	63	21	.....	.....	.....	.....	.....	.....	3.13	-0.53	1.60	28	T.	10	18	6	7	nw.	Chas. E. Hall.
Elizabeth.....	Union.....	34	64	.....	.....	.....	.....	6	21	3.11	-0.59	1.31	28	8.8	13	11	6	14	w.	Union County Park Comm.
Flemington.....	Hunterdon.....	140	57	30.2	-0.3	55	16	12	14†	2.53	-0.94	0.89	28	10.5	13	16	5	10	ne.	Hiram E. Deats
Freehold.....	Monmouth.....	194	339	30.2	-2.5	57	16	12	20	2.95	-1.07	1.03	28	5.8	8	14	10	7	nw.	Moreau Plant Co.
Hammononton.....	Atlantic.....	95	37	31.2	-2.9	58	11	7	14	2.00	-1.74	0.88	24	4.5	5	8	5	18	ne.	J. G. Wilson.
Hightstown.....	Mercer.....	110	50	30.4	-0.1	56	16	11	14†	2.53	-0.94	1.33	28	5.4	11	10	11	10	nw.	James R. Pickering.
Indian Mills††.....	Burlington.....	100	54	31.4	-1.0	60	16	5	14	3.25	-0.72	1.60	28	3.3	7	7	13	11	w.	Edward Entwistle.
Jersey City††.....	Hudson.....	81	45	.....	.....	.....	.....	.....	.....	3.38	-0.62	1.55	28	4.5	10	4	13	14	nw.	Jersey Journal.
Lakewood.....	Ocean.....	54	39	32.1	-0.1	62	16	10	14	3.38	-0.62	1.55	28	4.5	10	4	13	14	nw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	56	30.8	0.0	57	16	11	14	3.05	-0.41	1.65	28	7.0	8	21	3	7	nw	George Bailey.
Layton (near)††.....	Sussex.....	480	42	26.2	+0.6	54	25	-2	9	2.28	-0.70	0.72	28	17.4	12	7	6	18	ne.	A. M. Depue.
Little Falls.....	Passaic.....	157	40	29.6	+0.1	56	16	8	22	3.35	-0.32	1.46	29	11.8	17	4	10	17	w.	Passaic Valley Water Co
Long Branch.....	Monmouth.....	34	35	30.2	-1.8	62	16	14	14†	3.46	-0.68	1.97	28	8.7	10	3	10	18	nw.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	13	26.8	.....	52	25	7	22	3.90	+0.89	1.60	29	16.0	9	15	9	7	w.	Arthur Barkman.
Marlton.....	Burlington.....	90	1	.....	.....	.....	.....	.....	.....	3.48	.....	1.60	28	5.1	10	9	10	12	n.	David Griscom.
Millville.....	Cumberland.....	60	2	.....	.....	.....	.....	.....	.....	3.03	.....	1.50	28	.....	6	8	9	14	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	80	31.3	+0.1	59	16	12	14	3.52	+0.18	1.60	29	5.5	8	4	8	19	nw.	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	2	.....	.....	.....	.....	.....	.....	2.95	.....	1.63	28	10.9	11	8	9	14	.....	James C. Long.
Newark.....	Essex.....	10	89	29.8	-0.1	55	16	10	22	2.80	+0.86	1.21	28	10.7	12	4	11	16	ne.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	89	30.8	+0.2	56	16	10	14	2.65	-0.75	1.47	28	5.0	11	11	7	13	ne.	N. J. Experiment Station
New Milford††.....	Bergen.....	12	25	.....	.....	.....	.....	.....	.....	3.46	0.00	1.61	28	.....	14	.....	.....	.....	.....	Hackensack Water Co
Newton.....	Sussex.....	769	60	25.0	-1.6	49	16†	3	9	2.80	-0.50	0.75	28	18.2	14	7	4	20	nw.	Irving J. Kern.
Orange.....	Essex.....	63	3	.....	.....	.....	.....	.....	.....	3.24	.....	0.93	28	.....	10	.....	.....	.....	.....	H. J. Finley.
Paterson.....	Passaic.....	95	72	28.0	-2.2	56	17	7	22	1.90	-1.65	0.72	28	9.3	11	7	16	8	nw.	J. W. Cook.
Pomerton.....	Burlington.....	55	14	32.4	-2.1	60	16	12	14	3.09	-0.39	1.47	28	4.5	11	10	4	17	w.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	560	26.6	-2.2	48	16	11	22	3.00	-0.88	1.23	28	9.9	9	11	7	13	.....	Town Engineer.
Plainfield.....	Union.....	120	55	30.1	-0.2	55	16	11	22	3.00	-0.65	1.88	28	8.5	11	7	11	13	nw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	1	.....	.....	.....	.....	.....	.....	2.91	.....	1.51	28	5.4	10	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	45	32.6	-1.0	63	16	5	14	3.36	+0.16	1.21	29	.....	10	13	5	13	ne.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	3	.....	.....	.....	.....	.....	.....	2.79	.....	1.80	28	9.5	6	3	14	14	ne.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	26	28.6	-0.9	55	16	6	22	3.45	-0.21	1.98	28	12.2	11	12	8	11	nw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	20	28.4*	-2.3	50	16	-1	14	2.77	-0.84	1.55	28	.....	8	14	10	6	w.	N. J. Water Policy Comm.
Sandy Hook††.....	Monmouth.....	15	45	30.8	-0.5	52	16	14	22	2.95	-1.01	1.92	28	7.9	9	7	10	14	nw.	U. S. Coast Guard.
Somerville (near).....	Somerset.....	385	60	29.2	-0.3	55	16	8	22	2.71	-0.81	1.32	28	7.0	13	8	10	13	nw.	Richard H. Rogers.
Sussex.....	Sussex.....	450	48	25.8	-1.4	48	16	5	9†	3.05	+0.08	0.82	28	17.4	12	12	6	14	w.	Marshall Hunt.
Toms River.....	Ocean.....	33	22	.....	.....	.....	.....	.....	.....	1.65	-2.27	1.00	17	4.0	5	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	71	31.0	+0.5	57	16	14	20	2.56	-0.75	1.18	28	6.2	13	5	13	13	n.	U. S. Weather Bureau
Trenton No. 2.....	Mercer.....	105	13	31.2	.....	57	16	13	22	3.36	.....	1.82	28	2.2	11	.....	.....	.....	.....	Edward H. Ristow.
Puckerton.....	Ocean.....	23	50	34.4	+0.4	60	16†	12	14	2.41	-1.26	0.96	18	0.2	7	12	6	13	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	63	.....	.....	.....	.....	.....	.....	2.31	-1.21	1.18	28	.....	7	9	7	15	ne.	J. Davis Gauntt.
Westfield.....	Union.....	145	3	.....	.....	.....	.....	.....	.....	2.80	.....	1.38	29	8.5	8	17	4	10	ne.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	25	.....	.....	.....	.....	.....	.....	3.15	-0.39	1.47	28	.....	13	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. S. Keen
New York, N. Y.....	.....	10	73	30.8	-0.1	55	16	10	22	3.22	-0.44	1.92	28	9.5	13	6	12	13	n.	U. S. Weather Bureau
Philadelphia, Pa.....	.....	10	73	31.8	+0.7	56	16	15	20	3.25	-0.05	1.64	28-29	2.3	12	3	11	17	ne.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	30.3	-0.6	63	16	-2	9	2.97	-0.68	1.98	28	7.3	10	10	8	13	nw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. †† Received too late to be included in the means. T. precipitation less than 0.01 inch rain or melted snow

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

* Estimated

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y. W. B. O. Philadelphia-4-27-43-025

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1943-48

JANUARY, 1943

CLIMATOLOGICAL DATA: NEW JERSEY SECTION.

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Daily Precipitation for January, 1943

Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic City ¹	Coast.....	.08			T.	T.		.01	.01						.02		T.	.10	.65	.42							T.	.01	.83	1.80	T.	.12	T.	3.55	
Barnegat City ¹	Coast.....	.02			T.			T.	T.						.04			.33	.70	.25							T.	T.	.02	1.33		.13	T.	2.82	
Belleplain	Tuckahoe.....	T.	.18		T.													.46	.85	.20								.09	1.20	T.	T.		2.33		
Belmar	Coast.....	.01	T.		.02	T.	T.								.03	T.	.02	.02	.45	.20							.03	.10	1.79		.15		2.82		
Belvidere	Delaware.....	.09	T.	T.	.25										.03	.05	.06	.06	1.08	.53				T.			.04	.20	.26	1.86		.24		4.72	
Berlin	Mullica.....	.04			.01														.95	.50							.25	.75	.20		.30		3.00		
Boonton ³	Passaic.....		.03	T.	.09	T.								T.		.06	.06	.02	.02	.89	.17		T.				T.	.14	.04	1.59	.03	.17		3.30	
Bridgeton	Delaware.....	.06	.09							T.									.55	.42								.48	1.20		T.	T.	2.80		
Brooklawn	do.....				T.											T.		.08	.32	.30							T.	T.	.27	1.38		.11		2.96	
Burlington	Delaware.....				.05				.01								.04	.06	.30	.65							.03	.08	.76	.10	.03	.60		2.71	
Canoe Brook ³	Passaic.....				.10	.01										.04	.05	.03	.05	.68	.07						T.	.14	.07	1.68		.10		3.02	
Cape May ²	Coast.....	.14			.02			.01	.02						T.		T.	.08	.59								T.	T.	.29	1.62	.05	.06		2.88	
Charlotteburg	Passaic.....	.02		.01	.21											.04	T.	.03	.47	.70				.02			.15	.16	.78	.29	.07	.21		3.16	
Chatham ³	do.....		.02	.01	.09	T.										.05	.06	.05	.06	.83	.12		T.			T.	.01	.16	.18	.63		.23		2.50	
Chatsworth	Coast.....																		.84	.33								.39	1.69					3.25	
Clayton	Delaware.....								T.										.95	.42								T.	1.35					2.72	
Culvers Lake	do.....	.03		T.	.15					.08	T.					.05			.50	.61			T.					.20	.08	.95	.08	T.	.08		2.81
Dover	Passaic.....	.05			T.								T.		.10		.07	.07	.93	.44		.02					.10	.15	.65		.30			2.88	
Egg Harbor City ²	Mullica.....	.12			.03			.01	.02						T.			.12	.54	.32							.03	.34	1.60			T.	T.	3.13	
Elizabeth	Coast.....		T.	T.	.10											.10	.08	.08	.48	.38		T.		T.			.01	.05	.20	1.31	.03	.20	.09	3.11	
Flemington	Raritan.....	T.			.06	T.							T.			.07	.10	.09	.29	.46						.02	.06	.14	.89	.11	.11	.13		2.53	
Freehold	do.....				T.			T.								.08	.05	.04	.50	.60							T.	.60	1.03		T.	T.	.05		2.95
Hammonton	Mullica.....			.05						.02									.88									.29	.76					2.00	
Hightstown	Raritan.....		T.		.02	T.	T.									.02	.02	.04	.28	.49		T.						.06	.22	1.33		.01	.04		2.53
Indian Mills	Mullica.....	T.	.05	T.	T.	T.			.02							T.		T.	.66	.50						T.	T.	.37	1.60		T.	T.	.05		3.25
Jersey City	Coast.....																																		
Lakewood	Metedeconk.....				.02											.05	T.	.03	.52	.73									.35	1.55	.04	.04	.05		3.38
Lambertville	Delaware.....				T.			T.								T.	.11	.04	.33	.51							.08	.18	1.65		.15	T.		3.05	
Layton (near)	do.....	.07	T.	T.	.10												.05	.02	.36	.37							.13	.08	.72	.17	.06	.15		2.28	
Little Falls ³	Passaic.....		.01	.01	.15	.01										.05	.06	.04	.02	.89	.04			.02			.01	.20	.16	1.46		.01	.21		3.35
Long Branch ²	Coast.....	T.			.04	T.	T.								.03	T.	.04	.08	.37	.50							.15	.18	1.97		.10	T.		3.46	
Long Valley ³	Raritan.....	.20		T.	T.											.20		.38	.05	.75	.22							.20		1.60		.30		3.90	
Marlton	Delaware.....	.04			.03				.01								.01	.53	.77								.05	.39	1.60		.05	T.		3.48	
Millville ²	Maurice.....	.11							T.									.20	.63	.25								.34	1.50					3.03	
Moorestown ³	Delaware.....		.03		.04		T.			T.								.22	.82									.40	.33	1.60		.08		3.52	
Morris Plains	Passaic.....	.01		T.	.10											.06	.06	.02	.45	.39		T.	T.						* 1.63		.02	.21		2.95	
Newark ¹	Coast.....	T.	T.	T.	.13								T.		.10	.04	.13	.05	.50	.37		.01		T.			T.	.05	.14	1.21	T.	.07	T.	2.80	
New Brunswick	Raritan.....		T.	T.	.03	T.							T.	T.		.01	.06	.02	.22	.30							.08	.15	1.47	.21	T.	.10		2.65	
New Milford ²	Hackensack.....	.02			.13										.02	.05	.12	.04	.70	.36					.01		.06	.14	1.61		.12	.08		3.46	
Newton	Delaware.....	.10	.03	T.	.10			.05	.05	.35	.55		T.	T.		.02	.05	.05	.35	.55							.15	.15	.75	.30	.15	.05		2.80	
Orange ²	Passaic.....				.14											.06	.05		.54	.40							.03	.11	.93	.75	.23			3.24	
Pateroson ³	Passaic.....	.03	T.		.11										.02	T.	.05	.05	.48	.28							T.	.04	.02	.72		.10		1.90	
Pemberton	Delaware.....		.06		.01	T.			T.							.01	.01	.50	.73								T.	.01	.25	1.47	.03	T.	.01		3.09
Phillipsburg	do.....	T.	T.	T.	.12	T.									T.	T.	.08	.17	.44	.42		T.					T.	.18	.26	1.23	T.	.10		3.00	
Plainfield	Raritan.....	T.	T.	T.	.05		T.							T.	T.		.02	.05	.03	.21	.42						T.	.02	.19	1.88		.11	.02	3.00	
Plainsboro	Raritan.....				.04												T.	.03	.41	.35							.03	.12	1.51	.31	.02	.09		2.91	
Pleasantville ³	Coast.....		.01		T.					.03							T.	.02		.21	.99	.01						.30	.47	1.21	T.	.11		3.36	
Rahway ³	Rahway.....				.09												T.	T.	.10	T.	.60	T.					T.		.11	1.80			.09		2.79
Ridgefield ²	Hackensack.....	.01	T.	T.	.11											.01	.10	.05	.53	.30				.03			T.	T.	.23	1.98		.10		3.45	
Rundon	Coast.....																.19	.05	.31	.44								.05	.08	1.55		.10		2.77	
Sandy Hook ¹	Coast.....		T.				T.								.02		.05	.01	.34	.46							T.	.05	.04	1.92	T.	.06	T.	2.95	
Somerville (near)	Raritan.....	.01			.07											.02	.04	.07	.37	.42							T.	.05	.15	1.32	.03	.09	.07	2.71	
Sussex	Hudson.....	.06	T.	T.	.02									T.		T.	.20	.10	.60	.60		T.						.10	.20	.82	.20	.05	.10		3.05
Toms River	Coast.....																	1.00	.10	.15								.20	.20					1.65	
Trenton ¹	Delaware.....	.01		T.	.02	.03		T.	.01																										

Daily Temperatures for January, 1943

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum....	44	42	40	45	31	32	36	35	34	38	40	44	33	41	52	52	53	42	50	27	31	33	44	42	48	47	33	38	36	37	45	40.2
	Minimum....	34	29	33	26	25	23	30	25	23	25	24	27	20	24	40	42	38	37	25	16	22	17	25	35	39	32	29	30	30	32	29	28.6
Barnegat City†.....	Maximum....	44	39	40	44	32	34	36	33	30	38	39	42	34	41	50	55	45	41	50	27	28	30	42	42	49	45	33	36	35	37	41	39.1
	Minimum....	28	26	29	24	23	23	25	22	22	20	24	25	18	12	35	32	36	35	22	15	18	10	17	31	38	30	22	30	29	28	26	24.1
Belleplain.....	Maximum....	21	24	25	30	21	18	18	21	17	10	15	26	.....	6	25	36	36	35	12	.....	10	14	25	31	31	25	25	24	27	25	22.6°	
	Minimum....	36	35	34	35	28	30	33	37	30	30	36	35	30	37	45	49	44	34	39	31	26	24	26	42	45	42	31	27	38	32	42	34.9
Belvidere.....	Maximum....	28	21	25	24	18	21	19	19	10	14	19	22	16	13	29	30	32	29	30	11	16	10	14	25	33	28	22	19	21	22	21	21.3
	Minimum....	36	30	32	38	26	29	30	32	30	32	35	37	29	38	44	52	39	39	40	22	20	25	39	44	48	38	30	27	40	28	45	34.6
Boonton§§.....	Maximum....	26	19	20	24	19	17	16	13	12	15	23	16	11	11	26	33	32	32	11	11	9	8	12	27	34	22	21	21	23	24	20	20.2
	Minimum....	40	40	38	44	35	31	38	34	33	37	42	40	33	41	42	62	55	51	47	34	32	31	47	50	55	53	31	34	33	34	39	40.5
Bridgeton.....	Maximum....	26	27	28	29	25	21	25	23	21	18	23	26	19	13	35	29	40	36	33	15	17	14	18	29	33	31	25	26	27	28	24.8	
	Minimum....	43	48	37	40	30	32	34	33	34	33	40	37	33	43	48	58	54	40	43	34	26	29	45	42	50	48	32	30	37	35	45	39.1
Burlington.....	Maximum....	28	27	30	22	20	19	25	22	18	18	24	23	18	12	35	35	38	34	33	15	19	15	18	29	29	31	24	25	27	26	25	24.7
	Minimum....	36	38	37	40	27	31	33	33	34	34	35	37	32	39	45	57	44	34	41	25	21	27	41	43	49	37	32	22	40	42	47	36.7
Canoe Brook§§.....	Maximum....	21	20	20	24	18	10	12	12	8	15	17	16	7	8	28	32	32	32	12	12	8	8	12	27	33	22	22	22	24	20	18	2
	Minimum....	43	41	42	40	32	33	39	34	35	42	40	42	34	44	52	62	58	47	52	30	36	37	43	47	50	44	36	38	37	39	40	41.6
Cape May*.....	Maximum....	32	32	34	30	26	28	28	25	25	29	31	24	25	34	39	42	39	39	20	20	20	21	34	36	41	30	30	29	30	31	31	30.2
	Minimum....	37	35	31	36	24	28	27	30	30	31	33	36	31	34	43	55	52	32	36	36	19	22	26	41	57	56	30	25	38	37	43	35.2
Charlotteburg.....	Maximum....	21	14	23	19	12	14	13	15	6	11	15	20	12	1	26	29	30	28	27	6	10	4	8	25	28	26	17	17	19	20	17.3	
	Minimum....	44	43	43	34	30	31	33	33	32	36	42	41	33	43	50	61	59	41	44	38	27	27	45	47	55	54	38	33	34	34	40	40.2
Chatsworth.....	Maximum....	23	26	28	28	22	22	21	20	17	9	17	26	18	5	34	30	37	35	35	14	13	11	13	26	32	22	23	26	25	24	26	22.8
	Minimum....	41	40	38	43	38	32	35	34	33	36	41	42	35	42	50	59	59	47	44	40	34	30	47	51	54	53	43	38	35	38	40	41.7
Clayton.....	Maximum....	27	29	30	33	26	24	27	24	20	28	25	27	20	19	38	36	42	36	37	17	20	15	25	31	34	28	37	32	28	25	28	28.0
	Minimum....	34	34	32	38	.....	28	30	31	30	30	34	36	29	36	43	53	43	33	37	.....	21	25	33	42	54	.....	.....	.....	.....	.....	.....	.....
Dover.....	Maximum....	15	17	18	.....	15	10	12	18	10	12	19	22	14	10	32	31	32	31	21	9	11	3	10	30	31	.....	.....	.....	.....	.....	.....	.....
	Minimum....	39	37	39	41	32	32	35	33	35	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elizabeth.....	Maximum....	25	21	30	25	19	14	16	17	17	15	20	21	17	11	30	29	37	33	33	13	6	10	18	21	33	32	23	23	25	25	22	21.8
	Minimum....	38	38	34	34	29	30	32	32	32	33	36	36	32	40	44	55	53	39	36	36	34	28	29	41	49	49	31	31	40	40	47	37.4
Flemington.....	Maximum....	28	23	26	28	20	22	20	20	14	14	22	21	15	12	32	31	37	33	32	13	15	12	16	27	31	30	23	22	25	24	23	22.9
	Minimum....	41	39	36	40	29	31	33	32	31	33	41	38	31	37	51	57	52	37	42	35	25	32	43	44	58	48	33	30	36	32	40	38.1
Freehold.....	Maximum....	21	22	26	24	19	19	19	20	15	13	21	25	16	13	32	33	35	32	30	12	15	11	14	27	31	29	21	24	23	25	22	22.2
	Minimum....	45	41	50	46	32	33	36	39	35	36	58	42	33	45	52	57	55	43	46	41	30	31	51	50	54	47	34	33	36	49	42.4	
Hammonton.....	Maximum....	24	23	25	27	21	19	22	19	12	14	16	26	15	7	32	28	34	34	32	11	15	10	14	27	28	29	24	23	25	23	20.0	
	Minimum....	39	37	37	40	30	32	35	33	33	36	38	38	31	42	51	56	52	37	42	35	25	28	41	48	50	47	31	29	36	32	42	38.0
Hightstown.....	Maximum....	26	24	25	26	20	18	19	15	12	22	25	17	11	33	33	36	33	33	13	17	11	15	27	30	30	22	24	25	25	23	22.9	
	Minimum....	44	38	37	43	29	32	33	33	36	41	40	32	43	50	60	56	41	43	31	27	29	48	49	54	52	31	33	33	33	41	39.5	
Indian Mills(near).....	Maximum....	26	26	30	28	23	22	21	19	17	8	16	25	17	5	35	31	38	35	31	14	16	10	13	26	31	30	23	26	25	26	25	23.2
	Minimum....	45	41	37	42	30	32	35	34	32	37	43	40	33	40	50	62	57	39	44	35	27	29	44	44	56	52	33	32	33	34	39	39.7
Lakewood.....	Maximum....	27	25	28	28	22	21	20	19	14	14	23	29	20	10	35	32	38	35	35	14	16	13	15	28	29	32	25	29	25	28	25	24.5
	Minimum....	40	40	35	39	28	32	35	33	38	33	39	41	33	41	48	57	52	39	42	34	26	19	33	46	50	45	32	31	43	38	45	38.6
Lambertville.....	Maximum....	29	26	28	26	20	19	20	14	14	22	21	16	11	34	30	35	32	31	12	17	12	15	28	29	30	24	22	25	24	23	22.9	
	Minimum....	35	34	33	35	24	30	28	32	31	32	35	35	29	35	44	53	45	33	40	30	20	23	26	42	54	41	33	32	52	31	46	35.2
Layton(near).....	Maximum....	23	14	14	19	14	10	6	12	2	7	14	22	13	1	27	24	30	27	28	8	10	5	10	26	27	26	20	18	22	24	29	17.2
	Minimum....	37	32	34	39	27	30	32	32	39	32	37	39	31	40	46	56	39	35	41	26	21	38	49	50	55	38	33	37	40	40	37.9	
Little Falls§§.....	Maximum....	26	24	23	28	18	18	19	16	13	12	21	24	17	12	15	32	35	33	31	12	16	8	12	14	31	34	22	21	22	23	21	21.2
	Minimum....	40	35	38	41	28	31	34	33	35	40	39	32	40	51	62	48	36	41	25	24	25	44	42	56	46	31	32	35	33	43	36.4	
Long Branch*.....	Maximum....	26	23	28	22	19	19	21	19	20	15	23	25	18	14	36	36	35	33	22	14	17	14	19	31	37	30	24	27	27	28	26	24.1
	Minimum....	35	38	34	37	27	31	34	33	30	32	36	37	30	37	45	42	40	34	38	24	20	25	38	44	52	35	30	38	40	32	46	35.3
Long Valley§§.....	Maximum....	22	18	22	24	15	17	13	14	9	8	13	17	13	8	24	27	32	30	29	8	10	7	11	21	28	31	19	19	20	20	18	18.4
	Minimum....	42	37	35	40	29	29	32	31	32	32																						

51.05
VNJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

FEBRUARY, 1943.

No. 2

GENERAL SUMMARY.

As to average, this was the warmest February of the past four years. However, there was a greater range of temperature and a short period of much colder weather than is usually experienced. The period, 4-11th was decidedly mild for the season, as was also the period, 19-24th. Highest monthly temperatures occurred generally on the 23d and 24th, and readings of 70° or 71° were reached at several stations. From the 12-18th, it was unusually cold, averaging about 10° below normal. On the 15th and 16th, sub-zero readings were registered over most of the State, and the lowest temperatures in this State since February, 1935 were recorded in northern New Jersey.

The month was dry with the least average precipitation of any February since 1917. This was mostly in the form of rain except at some northern stations, where it was nearly half snow. The precipitation was well distributed throughout the month and was comparatively uniform over the State. It averaged only 57% of normal while the snowfall was less than half of normal.

There were winds of gale force on the 11th, 14th, and 28th, but no extremely high velocities were attained and no damage of consequence done. Sunshine and cloudiness were about normal. The prevailing wind was from the west, thus departing from the usual northwest for February.

TEMPERATURE.

The monthly mean temperature for the State, as computed from observations of 40 stations, was 32.9°, which was 2.3° above normal. The highest temperature was 71° at Hammon-ton and Pemberton on the 23d, and the lowest, -25° at Char-lotteburg on the 16th. The highest monthly mean temperature was 36.8° at Cape May, and the lowest, 28.0° at Long Valley. The temperature departure from the normal for the year, 1943, for the State is +0.8.

PRECIPITATION.

The mean total precipitation for the State, as computed from observations of 56 stations, was 2.01 inches, which was 1.54 inches below normal. The average total snowfall at 24 selected stations was 3.8 inches, which was 5.0 inches below normal. The greatest monthly precipitation was 3.46 inches, at Toms River, and the least 1.06 inches at Burlington. The greatest amount of precipitation in any 24 consecutive hours was 1.20 inches at Cape May on the 4th. The average for the Highlands was 2.12 inches; for the Red Sandstone Plain 1.88 inches; for the Southern Interior 2.06 inches; and for the Sea Coast 2.09 inches.

The precipitation accumulated departure from the normal for the year 1943, to date, by sections, is: The Highlands, -1.38 inches; Red Sandstone Plain, -2.44 inches; Southern Inter-ior, -2.47 inches; Sea Coast, -2.20 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 1, 4, 5, 6, 11, 12, 20, 23.

SLEET: 10, 13, 14, 27.

THUNDERSTORMS: 7, 24, 25.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.62	18	29.42	6	17.3	45	s.	11	70	55	66	69	812
Long Branch.....	30.61	18	29.45	6	13.4	52	nw.	14	69	56	60	55	871
Trenton.....	30.62	18	29.45	6	10.3	31	s.	28	66	56	60	53	872

COMPARATIVE DATA FOR FEBRUARY.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	23.9	54	-2	3.93	..	..	..	..	..
1886.....	28.9	64	-10	5.42	..	..	..	..	..
1887.....	33.9	69	6	5.24	..	13	..	..	..
1888.....	30.6	60	-5	3.53	..	8	..	..	..
1889.....	27.7	53	-3	2.49	..	8	..	..	..
1890.....	33.9	76	14	4.17	..	10	..	..	..
1891.....	38.0	71	1	5.11	..	14	6	9	13
1892.....	33.6	58	7	1.63	..	7	7	9	13
1893.....	30.1	63	-1	5.73	..	11	7	8	13
1894.....	29.7	62	-11	4.42	..	11	9	8	11
1895.....	23.6	57	-12	1.28	11.6	5	13	9	6
1896.....	32.1	62	-12	6.77	6.7	12	9	9	11
1897.....	32.5	59	-6	3.61	8.0	8	8	10	10
1898.....	32.7	65	-15	3.48	2.0	9	12	7	9
1899.....	25.8	60	-17	6.06	31.3	15	10	6	12
1900.....	31.0	69	-6	5.30	9.6	10	9	9	10
1901.....	25.4	52	-6	0.94	4.9	4	15	9	4
1902.....	27.4	62	-7	6.24	16.5	9	12	6	10
1903.....	33.7	70	-16	4.87	6.7	10	12	8	8
1904.....	24.8	65	-16	2.45	5.6	8	13	8	8
1905.....	23.4	53	-18	2.53	7.3	7	14	7	7
1906.....	30.9	64	-12	2.58	5.4	7	14	7	7
1907.....	23.6	55	-22	2.67	20.8	8	14	7	7
1908.....	28.1	65	-17	4.79	11.9	9	10	10	9
1909.....	37.8	72	-2	4.96	2.3	12	6	10	12
1910.....	30.5	69	-11	3.08	6.2	10	10	9	9
1911.....	30.9	67	-12	2.78	11.2	11	8	7	13
1912.....	27.7	61	-14	2.49	2.8	5	11	12	6
1913.....	30.6	70	-5	2.49	3.5	7	16	6	6
1914.....	25.9	67	-12	2.85	15.1	9	12	7	9
1915.....	35.7	75	-7	5.37	3.5	8	11	6	11
1916.....	28.1	63	-18	4.21	11.4	11	10	6	13
1917.....	28.1	62	-19	1.95	8.3	11	10	9	9
1918.....	29.0	67	-23	2.08	2.6	7	12	8	8
1919.....	33.6	65	4	3.39	1.2	10	15	4	9
1920.....	27.9	54	-17	4.20	20.0	11	11	8	10
1921.....	34.0	71	-5	3.81	13.6	10	10	8	10
1922.....	33.6	73	-10	2.94	8.5	10	10	8	10
1923.....	26.1	56	-12	2.58	13.8	12	10	8	10
1924.....	28.9	62	-3	4.10	11.9	9	13	5	11
1925.....	37.3	72	-1	2.23	0.7	7	12	6	10
1926.....	29.4	57	-11	4.54	21.2	11	9	5	14
1927.....	36.1	66	4	3.12	5.1	11	10	8	10
1928.....	32.1	63	-6	4.05	4.4	10	12	7	10
1929.....	31.6	63	-9	4.06	9.2	8	13	7	8
1930.....	35.6	80	-10	2.80	4.2	9	13	7	8
1931.....	33.3	62	-9	2.18	3.0	8	14	5	9
1932.....	35.9	69	4	2.16	2.2	9	11	6	12
1933.....	33.5	67	-12	3.33	10.4	10	12	6	10
1934.....	18.6	54	-26	2.77	22.7	8	15	6	7
1935.....	30.1	64	-31	2.80	6.8	9	12	7	9
1936.....	24.4	66	-17	3.10	9.6	10	13	5	11
1937.....	34.0	65	4	2.30	3.8	8	11	7	10
1938.....	35.5	70	6	2.31	1.1	10	9	6	13
1939.....	36.3	74	1	5.55	2.0	11	11	6	11
1940.....	31.9	65	-1	3.03	12.2	11	12	6	11
1941.....	29.4	53	-5	2.47	8.8	6	16	5	7
1942.....	29.7	63	-5	2.69	1.2	6	14	6	8
1943.....	32.9	71	-25	2.01	3.8	8	14	6	8
Period.....	30.6	80	-31	3.55	8.8	9	11	7	10

Climatological Data for February, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	70	36.0	+2.4	56	19	6	15	2.32	-1.04	0.86	4	1.3	8	12	8	8	w.	U. S. Weather Bureau
Barneget City††.....	Ocean.....	36	\$23	33.1	.....	62	24	3	15†	2.81	.....	0.86	4	.....	7	.....	8	8	w.	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	49	34.5	+1.8	67	24	-	6	16	2.99	-0.34	0.88	11	3.5	7	.....	.....	.....	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	1	.....	.....	.....	.....	.....	.....	1.91	.....	0.53	11	1.8	9	7	12	9	w.	City Water Dept.
Belvidere.....	Warren.....	289	51	30.8	+2.6	62	23	-10	15	2.36	-1.20	0.64	6†	4.5	10	20	1	7	.....	Miss C. S. Hixson.
Berlin.....	Camden.....	70	2	.....	.....	.....	.....	.....	.....	2.08	.....	0.80	6†	.....	5	19	5	4	.....	Samuel H. McCulley.
Boonton.....	Morris.....	280	\$53	28.2	+0.2	62	23	-18	16	1.95	-1.35	0.53	7†	.....	8	13	4	11	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	60	35.9	+1.9	69	24	2	16	2.17	-1.05	0.79	11	0.6	6	17	3	8	nw.	Bennett K. Matlack
Brooklawn.....	Camden.....	30	2	.....	.....	.....	.....	.....	.....	1.89	.....	0.72	11	0.5	7	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	\$57	36.6	+3.4	65	23	8	15	1.06	-2.26	0.38	7	0.3	8	16	6	6	sw.	Public Service E. & G. Co.
Canoe Brook.....	Essex.....	180	13	28.2	-0.4	65	21	-18	16	1.91	-0.94	0.62	14	.....	6	17	3	8	nw.	N. J. Water Policy Comm.
Cape May††.....	Cape May.....	17	55	36.8	+2.7	66	24	9	15	2.25	-1.04	1.20	4	0.2	8	9	9	10	nw.	Naval Air Station.
Charlotteburg†††.....	Passaic.....	760	51	29.1	+2.1	63	23	-25	16	2.20	-1.49	0.66	13-14	12.5	11	19	0	9	w.	Newark Water Dept
Chatham.....	Morris.....	185	39	.....	.....	.....	.....	.....	.....	2.06	-1.81	0.58	14	.....	9	19	1	8	.....	Paul Molitor, Sr.
Chatsworth.....	Burlington.....	90	2	34.6	.....	70	24	-6	16	1.70	.....	0.60	11	2.0	8	3	10	15	nw.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	30	38.0	+6.4	69	23	2	15	2.35	-0.99	0.95	13	.....	6	13	3	12	n.	Worthy Hitt.
Culvers Lake††.....	Sussex.....	760	42	.....	.....	.....	.....	.....	.....	2.04	-0.92	0.63	6	6.8	9	.....	.....	.....	.....	L. S. Depue.
Dover.....	Morris.....	600	59	29.4	+2.2	62	23	-15	16	2.26	-1.51	0.64	6	6.5	7	4	17	7	.....	William C. Harris
Egg Harbor City.....	Atlantic.....	63	21	.....	.....	.....	.....	.....	.....	2.63	-1.57	0.72	4	0.3	10	16	6	6	nw.	Chas. E. Hall.
Elizabeth.....	Union.....	34	64	33.2	+2.0	67	23	-11	15	2.27	-1.59	0.58	6	3.6	12	18	3	7	w.	Union County Park Comm.
Flemington.....	Hunterdon.....	140	\$57	32.6	+2.3	62	23†	-7	15	1.89	-1.43	0.68	11	4.0	9	21	0	7	w.	Hiram E. Deats
Freehold.....	Monmouth.....	194	\$39	33.6	+2.5	67	23	-5	15	1.53	-2.41	0.50	11	3.0	9	17	8	3	w.	Moreau Plant Co.
Hammononton.....	Atlantic.....	95	\$37	34.6	+0.1	71	23	-6	16	2.23	-1.01	0.67	11	3.0	8	19	2	7	w.	J. G. Wilson.
Hightstown.....	Mercer.....	110	50	33.6	+2.6	68	23	-3	15	1.56	-1.83	0.50	11	3.1	8	15	7	6	nw.	James R. Pickering.
Indian Mills††.....	Burlington.....	100	54	34.3	+1.6	70	23	-5	16	1.95	-1.72	0.73	11	1.5	8	11	11	6	w.	Edward Entwistle.
Jersey City††.....	Hudson.....	81	45	.....	.....	.....	.....	.....	.....	2.11	-1.78	0.48	11	2.0	13	9	8	11	nw.	Jersey Journal.
Lakewood.....	Ocean.....	54	39	34.8	+3.3	70	24	-3	16	2.11	-1.78	0.48	11	2.0	13	9	8	11	nw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	56	32.9	+2.3	66	+23	-3	15	1.97	-1.41	0.70	11	1.9	7	16	6	6	sw.	Mabel Wollaston.
Layton (near)††.....	Sussex.....	480	42	.....	.....	.....	.....	.....	.....	2.09	-1.71	0.65	13-14	4.6	11	13	9	6	nw.	A. M. Depue.
Little Falls.....	Passaic.....	157	40	31.4	+1.1	64	23	-10	16	2.09	-1.71	0.65	13-14	4.6	11	13	9	6	nw.	Passaic Valley Water Co
Long Branch.....	Monmouth.....	34	35	33.7	+2.4	69	24	-6	15	2.01	-2.12	0.56	6	3.1	9	9	12	7	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	13	28.0	.....	62	24	-24	16	2.38	-0.44	0.64	7	8.0	7	20	1	7	w.	Arthur Barkman.
Marlton.....	Burlington.....	90	1	.....	.....	.....	.....	.....	.....	2.71	.....	0.88	11	3.0	9	17	4	7	sw.	David Griscom.
Millville.....	Cumberland.....	60	2	.....	.....	.....	.....	.....	.....	2.27	.....	0.73	11	0.3	6	13	6	9	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	80	34.6	+2.8	69	23	1	16	1.32	-1.93	0.31	7	1.5	10	9	11	8	nw.	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	2	.....	.....	.....	.....	.....	.....	2.07	.....	0.59	6	6.2	8	19	1	8	.....	James C. Long.
Newark.....	Essex.....	10	89	32.3	+2.7	63	24	-7	15	1.98	-1.47	0.73	6	4.1	9	9	11	8	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	89	33.8	+2.7	68	23	-6	15	1.61	-1.76	0.51	11	2.9	12	14	7	7	sw.	N. J. Experiment Station
New Milford††.....	Bergen.....	12	25	.....	.....	.....	.....	.....	.....	1.60	-1.47	0.64	6	.....	7	.....	.....	.....	.....	Hackensack Water Co
Newton.....	Sussex.....	769	60	28.7	+1.5	65	23	-16	15	1.83	-1.92	0.59	6	8.0	10	13	6	9	sw.	Irving J. Kern.
Orange.....	Essex.....	63	3	.....	.....	.....	.....	.....	.....	1.82	.....	0.50	13	5.0	9	.....	.....	.....	.....	H. J. Finley.
Paterson.....	Passaic.....	95	72	30.0	-0.7	62	22†	-14	15†	1.73	-2.25	0.64	6	5.4	10	15	7	6	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	14	35.4	+1.8	71	23	0	16	1.84	-0.92	0.61	11	0.7	11	16	1	11	w.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	\$60	31.1	+2.2	61	23	-7	15	2.61	-0.70	0.72	11†	4.5	9	14	6	8	.....	Town Engineer.
Plainfield.....	Union.....	120	55	33.4	+3.7	68	23	-8	15	1.82	-1.93	0.55	11	4.6	11	10	11	7	sw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	1	.....	.....	.....	.....	.....	.....	1.70	.....	0.55	11	1.0	9	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	\$45	34.6	+1.0	69	24	-7	16	2.37	+0.53	0.73	5	.....	10	17	3	8	nw.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	3	.....	.....	.....	.....	.....	.....	1.68	.....	0.74	6	4.0	5	5	18	5	nw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	26	31.8	+2.0	63	23	-9	15	1.97	-1.93	0.67	13	3.8	9	10	11	7	nw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	20	32.4	+1.6	68	24	-10	16	1.95	-1.33	0.56	11	.....	8	17	7	4	w.	N. J. Water Policy Comm.
Sandy Hook††.....	Monmouth.....	15	45	32.8	+0.7	59	24	-5	15	1.24	-2.51	0.49	6	T.	8	10	11	7	sw.	U. S. Coast Guard.
Somerville (near).....	Somerset.....	385	60	33.0	+3.1	66	23	-10	15	1.90	-1.55	0.69	11	4.5	10	17	1	10	w.	Richard H. Rogers.
Sussex.....	Sussex.....	450	48	28.9	+2.0	62	23	-20	16	1.58	-1.38	0.50	11	5.2	8	16	2	10	w.	Marshall Hunt.
Toms River.....	Ocean.....	33	22	.....	.....	.....	.....	.....	.....	3.46	-0.64	1.00	5-6	3.0	6	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	71	33.8	+3.1	68	23	-2	15	1.28	-1.99	0.56	11	1.2	6	8	13	7	nw.	U. S. Weather Bureau
Trenton No. 2.....	Mercer.....	105	13	33.8	.....	68	23	-1	15	1.97	.....	0.76	11	2.4	7	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	50	36.3	+3.0	66	24	-1	16	2.07	-1.42	0.64	4	0.3	12	18	1	9	sw.	John H. Brown.
Vineland.....	Cumberland.....	110	63	.....	.....	.....	.....	.....	.....	2.15	-1.13	0.69	4	1.0	7	17	4	7	sw.	Robert Jones.
Westfield.....	Union.....	145	3	.....	.....	.....	.....	.....	.....	1.73	.....	0.50	12	4.0	6	15	7	6	nw.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	25	.....	.....	.....	.....	.....	.....	2.03	-1.11	0.77	6	.....	6	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. S. Keen
New York, N. Y.....	.....	10	73	34.1	+2.8	61	24	-8	15	1.67	-2.15	0.56	6	3.9	10	12	9	7	nw.	U. S. Weather Bureau
Philadelphia, Pa.....	.....	10	73	34.1	+1.6	67	23	3	15	1.89	-1.43	0.71	11	1.0	10	4	14	10	nw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	32.9	+2.3	71	23	-25	16	2.01	-1.54	1.20	4	3.8	8	14	6	8	w.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. †† Received too late to be included in the means. T. precipitation less than 0.01 inch rain or melted snow

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing: for example, b represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y. W. B. O. Philadelphia-6-22-43-925

Daily Precipitation for February, 1943

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast	.08			.86	T.	.46				T.	.48		.23	T.											.08		.05	.13				2.32	
Barneget City ⁴	Coast	.10			.86		.28					.82		.07												.64		T.	.04				2.81	
Jelleplain	Tuckahoe	T.			.68		.22	.70				.88		.07	.24													.20					2.99	
Belmar	Coast	.06			.45	.01	.33					T.	.53		.37	T.										.12		.02	.02				1.91	
Belvidere	Delaware				.13	.09	.64					.24	.64		.37				T.				.03			.15		.02	.05				2.36	
Berlin	Mullica					.80						.80		.20												.20		.08					2.08	
Boonton ³	Passaic	T.				.22	.15	.53				.04	.37		.53					T.							.02		.09				1.95	
Bridgeton	Delaware	.12			.57	T.	.14	.11				.79		.28													.08	T.	.08				2.17	
Brooklawn	do			.26	T.		.30	.12				T.	.72	T.	.22	T.											.18	T.	.09				1.89	
Burlington	Delaware	.14	T.		.03		.15	.38	T.			.15		.12									.06						.03				1.06	
Canoe Brook ³	Passaic					.21	.48					.07	.36		.62														.17				1.91	
Cape May ²	Coast	.07			1.20	.07	.31					T.	.31		.09	.01										.19		T.	T.				2.25	
Charlotteburg	Passaic	.14			.07	.54	.10				.01	.43	.03	.54	.12											.06		T.	.16	T.			2.20	
Chatham ³	do	.08			T.	.01	.17	.54				.06	.47		.58					T.							.08		.07				2.06	
Chatsworth	Coast	.08			.34		.20	.11				.60		.15														.16		.06			1.70	
Clayton	Delaware				.59		.17	.27						.95													.27		.10				2.35	
Culvers Lake	do	.12			.03		.63	.07	.03			T.	.47		.46												.17		.06				2.04	
Dover	Passaic				.24		.64					.05	.51		.55					T.							.17		.10				2.26	
Egg Harbor City ²	Mullica	.20			.72		.39					.02	.65		.22	.02										.15		.02	.24				2.63	
Elizabeth	Coast	.08			.03	.04	.58	.24				.04	.51		.53	.01				T.	.01					.10		T.	.10				2.27	
Flemington	Raritan	.06			.01		.38	.17				.03	.68		.29					T.							.09		T.	.18				1.89
Freehold	do	.07			.16	.07	.30	.18				.50	T.	.16	T.					T.				.03					.06				1.53	
Hammoncton	Mullica	.13			.49	.20	.24					.67		.20														.19		.11			2.23	
Hightstown	Raritan	.06			.07	T.	.33	.28				T.	.50	.21	T.	T.				T.							.03		T.	.08			1.56	
Indian Mills	Mullica	.10			.33	T.	.17	.18				T.	.73		.15	T.												T.	.19	T.	.10			1.96
Jersey City	Coast																																	
Lakewood	Metedeconk	.05			.30	.24	.15	.10				.04	.48	.04	.42	.02	T.										.04	.09	T.	.14				2.11
Lambertville	Delaware	.08			.05		.38	.28				.70		.40															T.	.08			1.97	
Layton(near)	do																																	
Little Falls ³	Passaic	.09			.10	.28	.47					.06	.30	.10	.55						.01							.03		.10			2.09	
Long Branch ²	Coast	.04			.29	T.	.56					T.	.50		.46					T.								.03		.02			2.01	
Long Valley ³	Raritan					.06		.64				.24	.44		.60													.32		.08			2.38	
Marlton	Delaware	.08			.33		.19	.52				T.	.88		.15	T.												.40		.08			2.71	
Millville ²	Maurice	.11			.72		.42					.73		.12														.14		.03			2.27	
Moorestown ³	Delaware	.06			.09	.13	.10	.31				.14	.26	T.	.15	T.				T.								T.	.03		.05		1.32	
Morris Plains	Passaic					.18	.59	.11				.47	.01	.57	T.					T.								T.	.07	T.	.07		2.07	
Newark ¹	Coast	.07			T.	.02	.73					.02	.43		.56	T.				T.							.08		.02	.05			1.98	
New Brunswick	Raritan	.02			.03	.03	.39	.29				.02	.51	T.	.20	.02				T.	.02						.05		T.	.03			1.61	
New Milford ²	Hackensack				.03		.64	.01					.33	.54													.03		.02				1.60	
Newton	Delaware	.05			.01	.05	.59	.10	T.			.03	.53		.32					T.							.10		T.	.05			1.83	
Orange ²	Passaic					.02	.49	.16					.39	.07	.50	.07					.02									.10			1.82	
Paterson ³	Passaic	.06			.04	.02	.64	T.	T.			.01	.33		.54												.03		.03				1.73	
Pemberton	Delaware				.34	.05	.19	.28				T.	.61	.01	.18	T.											.02	.09	T.	.05			1.84	
Phillipsburg	do	.13			.14	T.	.63	.13	T.			.03	.72		.72	T.											.12		T.	.09			2.61	
Plainfield	Raritan	.06			.02		.49	.10				.02	.55		.44						.02						.05		.01	.06			1.82	
Plainsboro	Raritan	.02			.08	.02	.37	.31				.55	T.	.27	.02															.06			1.70	
Pleasantville ³	Coast	.14			.14	.73	.16	.21					.42	.01	.30	T.	T.												.20				2.37	
Rahway ³	Rahway	.07				.74						T.	.45		.32	T.													.10				1.68	
Ridgefield ²	Hackensack				.03	.05	.60	.03				.03	.43		.67					T.							.05		T.	.08			1.97	
Runyon	Coast				.10	.06	.44	.31				.56		.28													.09			.11			1.95	
Sandy Hook ⁴	Coast	T.			.04		.49					.01	.36		.27												.04		.01	.02			1.24	
Somerville(near)	Raritan	.04			.03	.02	.47	.10				.03	.69		.41	T.											.05		T.	.06			1.90	
Sussex	Hudson	.05			T.		.40	.10	T.			T.	.50	T.	.15												.17		.01	.20			1.58	
Toms River	Coast				.75	1.00	1.00							.15													.26		.30				3.46	
Trenton ¹	Delaware	T.			.07	T.	.36					T.	.56		.23	T.				T.									.01	.05			1.28	
Trenton No. 2 ²	Delaware	.13			.09	T.	.61	T.				T.	.76		.26	T.											.03		T.	.09			1.97	
Tuckerton	Coast	.05			.64	.06	.18	.12				.52	.07	.22	.04												.02	.12		.03			2.07	
Vineland ³	Maurice	.24			.69	T.	.51	T.				.33	T.	.21	T.												.09	T.		.08			2.15	
Westfield ³	Rahway				T.		.34	.26				T.	.50	T.	.47													.08		.08			1.73	
Woodcliff Lake ²	Hackensack				.30		.77						.33		.57													.04		.02			2.03	
Woodstown																																		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ⁴ Precipitation is from 1:30 a. m. to 1:30 a. m.

² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. [†] Precipitation measured with recording gage. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

Amounts in italics are estimated.

Daily Temperatures for February, 1943

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum....	49	41	39	47	55	44	43	42	47	48	51	35	43	29	15	24	36	34	56	49	55	58	48	53	43	38	36	44	.....	42.8	
	Minimum....	32	25	25	39	43	37	36	32	27	35	30	24	29	8	6	7	24	14	27	37	42	38	35	41	32	30	26	35	.....	29.1	
Barnegat City.....	Maximum....	44	38	38	47	53	41	42	41	41	45	52	34	41	31	12	23	35	31	53	50	51	48	47	62	40	38	35	45	.....	41.5	
	Minimum....	28	24	20	38	38	34	32	28	25	30	26	21	26	6	3	5	12	3	21	30	30	30	32	37	29	31	25	28	.....	24.7	
Belleplain.....	Maximum....	48	42	37	52	54	61	45	42	46	45	58	35	42	35	35	31	37	35	55	65	65	62	66	67	60	42	34	50	.....	47.7	
	Minimum....	25	14	8	29	38	38	31	29	15	24	31	20	21	17	1	-6	5	8	15	29	35	30	26	48	26	18	20	22	.....	21.3	
Belvidere.....	Maximum....	40	36	32	38	50	38	37	40	44	37	40	37	35	32	17	22	31	29	47	56	60	58	62	55	45	32	39	45	.....	40.5	
	Minimum....	28	17	9	28	28	32	32	31	22	22	31	17	17	12	-10	-7	5	6	16	26	36	28	28	38	26	19	24	24	.....	21.0	
Boonton§§.....	Maximum....	41	38	34	42	49	37	35	37	38	42	44	29	34	25	0	10	29	28	46	61	58	57	62	56	38	30	35	47	.....	38.5	
	Minimum....	24	21	14	11	32	32	33	31	26	19	20	18	14	13	-10	-18	-12	9	8	16	27	29	28	30	29	17	20	21	.....	17.9	
Bridgeton.....	Maximum....	45	41	37	52	53	47	47	42	44	46	55	35	40	33	18	23	38	35	57	68	65	63	66	69	60	48	35	55	.....	47.0	
	Minimum....	29	19	16	31	35	39	32	31	25	28	32	23	22	16	4	2	12	12	18	29	35	32	30	45	30	23	22	23	.....	24.8	
Burlington.....	Maximum....	38	39	48	39	52	58	48	48	40	52	70	34	42	35	16	23	34	30	53	63	63	61	65	64	60	38	35	54	.....	46.5	
	Minimum....	30	21	25	31	32	35	32	26	28	32	21	31	16	8	9	14	12	29	32	40	32	34	46	29	25	24	25	.....	26.8		
Canoe Brook§§.....	Maximum....	41	35	36	40	49	43	34	37	41	39	48	30	40	25	6	19	30	29	45	64	65	58	64	57	41	32	42	49	.....	40.7	
	Minimum....	21	17	5	5	30	29	33	31	22	16	19	22	12	11	-9	-18	-14	1	7	20	20	22	27	28	25	14	23	20	.....	15.6	
Cape May.*.....	Maximum....	46	38	41	53	49	45	43	42	41	49	51	41	43	26	21	28	37	33	56	53	61	58	51	66	42	36	43	.....	44.1		
	Minimum....	30	24	27	41	40	35	35	32	33	40	30	30	26	10	9	13	18	19	33	38	38	35	42	33	34	25	26	33	.....	29.6	
Charlotteburg.....	Maximum....	47	37	34	39	51	49	35	36	36	35	44	36	34	34	18	19	28	28	49	59	60	59	63	58	57	33	33	.....	41.4		
	Minimum....	25	21	11	25	35	28	29	26	20	12	26	12	6	3	-16	-25	-10	5	14	24	39	22	23	40	22	9	20	17	.....	16.8	
Chatsworth.....	Maximum....	44	41	39	55	54	51	41	41	40	42	58	34	39	36	16	22	35	33	53	67	65	61	67	70	58	40	35	55	.....	46.1	
	Minimum....	26	22	10	30	38	36	38	32	22	22	33	20	17	16	2	-6	9	9	17	27	38	29	27	43	28	19	24	22	.....	28.2	
Clayton.....	Maximum....	45	40	36	49	53	49	44	41	43	45	59	42	42	37	21	28	36	35	54	65	64	63	69	68	63	53	43	54	.....	47.9	
	Minimum....	29	24	17	33	38	39	34	33	27	29	33	24	23	18	2	5	15	15	22	42	40	37	35	51	34	28	30	.....	28.0		
Dover.....	Maximum....	45	35	35	38	49	35	35	37	39	33	44	29	37	25	12	10	28	28	46	59	57	58	62	57	43	32	35	47	.....	38.9	
	Minimum....	28	19	13	28	32	32	31	29	23	19	20	15	14	7	-14	-15	10	10	14	28	40	27	29	37	24	16	22	22	.....	20.0	
Elizabeth.....	Maximum....	43	38	36	38	50	39	38	42	41	39	45	34	36	35	20	22	35	31	47	68	62	62	67	64	54	35	39	58	.....	43.3	
	Minimum....	27	21	11	31	30	32	32	21	22	32	19	16	18	-11	-14	9	9	21	26	32	28	29	33	28	22	25	25	.....	23.0		
Flemington.....	Maximum....	39	37	35	39	54	48	37	37	40	41	45	33	35	35	18	22	30	31	49	61	59	59	62	62	57	37	37	.....	42.4		
	Minimum....	31	22	11	30	34	33	32	22	24	33	18	18	17	-7	-6	10	9	17	28	40	29	29	35	29	21	24	24	.....	22.8		
Freehold.....	Maximum....	42	36	37	43	50	48	38	37	40	38	60	31	38	34	17	22	33	29	49	63	61	59	67	66	56	37	35	54	.....	43.4	
	Minimum....	28	21	14	30	36	35	31	30	23	24	28	18	18	17	-6	-2	11	8	19	33	43	28	36	48	26	22	23	21	.....	23.7	
Hammonton.....	Maximum....	46	43	36	61	55	50	41	41	46	45	60	35	42	37	17	24	36	35	55	68	67	65	71	70	60	46	35	54	.....	47.9	
	Minimum....	26	16	21	13	36	29	34	28	23	23	25	19	18	13	-1	-6	10	9	17	22	39	28	23	46	27	18	21	20	.....	21.4	
Hightstown.....	Maximum....	41	37	34	41	49	45	37	38	40	37	59	33	37	34	18	21	33	30	50	63	61	60	68	64	57	37	33	53	.....	43.2	
	Minimum....	30	21	12	31	34	34	32	31	23	24	32	19	17	-8	-1	14	10	21	32	41	30	28	44	27	20	24	25	.....	23.9		
Indian Mills(near)....	Maximum....	44	37	36	52	52	42	41	41	42	43	62	32	39	33	16	22	35	30	54	67	64	62	70	68	58	39	35	54	.....	45.4	
	Minimum....	28	19	8	31	36	38	31	32	19	22	31	20	18	15	3	-5	11	11	16	32	40	30	27	46	27	20	23	22	.....	23.2	
Jersey City.....	Maximum....	
	Minimum....
Lakewood.....	Maximum....	43	37	39	49	52	46	41	40	42	40	59	34	39	35	19	24	35	32	51	67	63	61	67	70	58	38	35	55	.....	45.4	
	Minimum....	26	23	13	31	37	34	31	32	23	24	34	21	18	19	-1	-3	14	10	19	31	42	28	28	49	29	26	24	.....	24.3		
Lambertville.....	Maximum....	42	37	39	40	52	44	38	40	42	39	50	34	36	35	18	22	32	34	51	63	60	61	66	61	58	37	37	53	.....	43.6	
	Minimum....	29	22	13	28	30	33	29	30	21	24	25	18	18	16	-3	-1	15	10	19	19	35	28	29	38	28	20	24	25	.....	22.2	
Layton(near).....	Maximum....	
	Minimum....
Little Falls§§.....	Maximum....	51	38	43	48	52	48	38	39	41	37	45	32	37	26	6	22	31	31	50	62	60	61	64	59	40	32	43	52	.....	42.4	
	Minimum....	30	23	12	18	35	33	33	31	25	20	23	19	16	15	-9	-10	-4	8	12	26	34	27	30	33	27	18	21	26	.....	20.4	
Long Branch*.....	Maximum....	41	35	36	44	52	40	39	40	41	39	56	33	40	30	6	24	34	29	50	67	61	60	57	69	42	37	36	56	.....	42.6	
	Minimum....	27	22	16	35	38	34	32	31	25	27	29	20	20	3	-6	-1	13	12	23	37	45	32	34	38	28	27	26	26	.....	24.8	
Long Valley§§.....	Maximum....	46	42	35	37	48	49	37	37	41	40	36	35	32	30	24	8	15	30	28	47	56	58	60	62	58	40	32	37	.....	39.3	
	Minimum....	22	17	3	23	32	29	30	28	18	20	29	23	9	6	-13	-24	-10	1	9	17	33	28	30	32	24	15	19	18	.....	16.7	
Moorestown*.....	Maximum....	42	35	36	44	51	41	39	38	40	45	60	34	37	31	18	21	33	31	54	64	64	60	69	65	48	37	34					

-1.05
VWJ

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

MARCH, 1943.

No. 3

GENERAL SUMMARY.

Temperature for March averaged practically normal but the monthly range was large with a monthly minimum of -10° at Charlotteburg on the 9th, and a maximum of 85° at Bridgeton on the 31st. The two coldest days were the 4th and 9th, but at only a few northern stations was zero reached. The high temperatures on the 31st were the result of a freak one-day heat wave which affected the southwest part of New Jersey and was little felt elsewhere in the State, though rather high readings were registered in the states immediately west and southwest.

Precipitation was 80% of normal and was greater than in either of the preceding months, January and February, of this year. Monthly totals were considerably more in the southern one-third of the State than elsewhere, though only a few stations recorded more than normal. The heaviest amounts were in the form of rain on the 6th. Snowfall was somewhat greater than normal and occurred on 3d, 6th, 13th, and 22d. The fall on the 22d was mainly in South and Central Jersey and as a result, monthly totals of snow were rather uniform over the State. With rather favorable soil and weather conditions, considerable preparation of land for spring planting was accomplished.

There were strong winds on the 6th, 7th, 17th, 22d, and 23d, but no unusual damage was reported.

TEMPERATURE.

The monthly mean temperature for the State, as computed from observations of 40 stations, was 39.4° , which was 0.2° above normal. The highest temperature was 85° at Bridgeton on the 31st, and the lowest, -10° , at Charlotteburg on the 9th. The highest monthly mean temperature was 44.2° at Burlington, and the lowest, 34.4° , at Boonton. The temperature departure from the normal for the year, 1943, to date, for the State is $+0.5$.

PRECIPITATION.

The mean total precipitation for the State, as computed from observations of 58 stations, was 3.03 inches, which was 0.74 inches below normal. The average total snowfall at 20 selected stations was 6.5 inches, which was 2.0 inches above normal. The greatest monthly precipitation was 4.43 inches, at Atlantic City, and the least, 0.71 inches, at Layton. The greatest amount of precipitation in any 24 consecutive hours was 2.25 inches at Elizabeth on the 6-7th. The average for the Highlands was 2.58 inches; for the Red Sandstone Plain 3.08 inches; for the Southern Interior 3.20 inches; and for the Sea Coast 3.43 inches.

The precipitation accumulated departure from the normal for the year 1943, to date, by sections, is: The Highlands, -2.21 inches; Red Sandstone Plain, -3.18 inches; Southern Interior, -3.12 inches; Sea Coast, -2.67 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 11, 12, 15, 16, 17, 18, 19, 20, 31.

SLEET: 2, 6, 13.

THUNDERSTORMS: 17.

HAIL: 17.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.96	9	29.42	6	17.6	54	se.	6	73	66	70	63	743
Long Branch.....	30.99	9	29.37	6	14.3	50	w.	7	70	55	58	50	772
Trenton.....	30.96	9	29.45	6	10.1	28	n.	23	70	54	57	45	763

COMPARATIVE DATA FOR MARCH.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	30.4	66	2	1.10				
1886.....	37.7	70	9	3.70				
1887.....	37.7	61	8	3.34		10		
1888.....	32.8	72	0	5.71		11		
1889.....	40.5	67	19	3.79		8		
1890.....	37.6	78	0	6.08		14		
1891.....	37.2	68	4	5.06		12	8	10
1892.....	34.4	64	6	4.75		9	10	12
1893.....	37.0	68	6	3.73		10	10	10
1894.....	44.2	83	12	1.77		10	12	11
1895.....	36.7	72	7	3.16	4.0	10	12	8
1896.....	34.0	69	8	5.34	13.2	11	13	8
1897.....	40.0	77	18	2.78	1.6	10	11	9
1898.....	45.1	77	16	3.33	3.0	12	9	10
1899.....	38.6	73	13	6.54	5.4	13	7	10
1900.....	35.6	67	9	3.51	7.0	10	12	12
1901.....	39.2	75	8	4.64	0.9	12	9	10
1902.....	43.9	77	0	4.34	5.7	11	12	10
1903.....	47.6	79	13	5.13	7.	10	11	8
1904.....	37.2	72	1	3.43	4.5	13	11	8
1905.....	39.8	87	7	3.95	2.6	12	14	8
1906.....	34.4	62	15	5.09	11.2	11	10	9
1907.....	41.2	88	11	3.04	11.5	10	13	10
1908.....	41.8	89	7	2.80	3.5	12	11	9
1909.....	38.3	74	6	3.48	4.6	13	12	10
1910.....	44.5	88	10	1.22	1.1	6	14	10
1911.....	37.6	76	3	3.33	5.3	11	10	12
1912.....	36.9	72	3	7.61	6.6	14	9	11
1913.....	44.8	79	1	5.15	0.1	12	10	9
1914.....	35.4	75	6	3.65	20.5	10	13	10
1915.....								
1916.....	36.1	63	11	1.13	7.4	3	20	7
1917.....	31.7	71	7	3.48	19.3	12	13	8
1918.....	38.2	72	0	4.65	9.8	13	12	8
1919.....	41.8	82	8	2.06	0.7	9	17	7
1920.....	43.2	77	12	5.32	1.6	13	14	7
1921.....	39.4	79	8	3.80	5.6	10	17	5
1922.....	49.1	92	11	3.03	7.	11	14	10
1923.....	41.1	82	2	4.52	3.7	13	12	6
1924.....	38.0	81	3	4.09	6.3	10	17	6
1925.....	38.8	76	5	2.51	2.7	8	16	6
1926.....	43.3	80	1	3.47	0.3	9	16	6
1927.....	35.1	79	0	2.25	0.4	7	16	9
1928.....	41.9	81	9	1.46	0.3	10	14	7
1929.....	38.3	82	6	2.84	4.9	10	14	8
1930.....	44.9	81	5	3.07	0.7	11	15	6
1931.....	40.0	78	9	2.64	0.1	7	16	7
1932.....	39.2	64	12	4.14	2.0	10	8	9
1933.....	36.6	69	3	5.49	2.5	9	14	6
1934.....	38.2	70	8	4.94	1.7	13	10	7
1935.....	36.5	77	7	3.31	9.6	12	13	7
1936.....	43.0	81	6	2.46	1.5	10	13	5
1937.....	45.3	78	1	5.28	1.4	13	10	9
1938.....	35.8	66	7	2.75	4.3	10	14	6
1939.....	43.2	85	1	2.15	1.6	11	12	7
1940.....	40.1	83	2	4.83	2.0	13	12	7
1941.....	34.7	72	8	5.14	3.3	12	10	9
1942.....	34.5	63	3	2.78	14.6	8	16	6
1943.....	42.2	72	16	5.73	1.7	12	10	8
Period.....	39.4	85	10	3.03	6.5	10	13	7
Period.....	39.2	92	15	3.77	4.5	12	13	8

Climatological Data for March, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, 0.1 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	70	41.0	+2.4	70	20	10	4	4.43	+0.83	1.14	27-28	3.8	13	7	9	15	s.	U. S. Weather Bureau.
Barnegat City.....	Ocean.....	36	23	38.6	.....	65	25	7	4	2.06	.....	1.04	21-22	.....	11	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	49	41.2	-0.2	79	31	5	4	4.23	+0.47	0.90	5	2.0	10	16	5	10	sw	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	1	.....	.....	.....	.....	.....	.....	3.09	.....	1.32	6	.....	13	12	7	12	w.	City Water Dept.
Belvidere.....	Warren.....	289	51	38.2	-0.3	70	26†	3	4	2.82	-0.87	1.28	6	6.0	9	19	4	8	w.	Miss C. S. Hixson.
Berlin.....	Camden.....	70	2	.....	.....	.....	.....	.....	.....	2.81	.....	1.50	6	.....	7	17	8	6	.....	Samuel H. McCulley.
Boonton.....	Morris.....	280	53	34.4	-1.5	67	26	3	9	2.49	-1.15	1.40	7	.....	10	14	3	14	ne.	John Kline.
Bridgeton.....	Cumberland.....	30	60	43.6	+1.2	85	31	9	4	3.27	-0.57	0.85	6	4.3	10	18	4	9	nw.	Bennett K. Matlack
Brooklawn.....	Camden.....	30	2	.....	.....	.....	.....	.....	.....	2.70	.....	0.67	6	2.5	7	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	57	44.2	+1.9	75	16†	8	4	2.47	-1.24	1.35	6	4.8	8	18	6	7	w.	Public Service E. & G. Co.
Canoe Brook.....	Essex.....	180	13	35.8	-1.2	72	26	3	9	3.05	-1.51	1.63	7	.....	11	16	3	12	nw.	N. J. Water Policy Comm.
Cape May.....	Cape May.....	17	55	41.3	+0.5	75	31	15	4	3.96	+0.17	1.55	27	4.8	13	9	11	11	s.	Naval Air Station.
Charlotteburg.....	Passaic.....	760	51	36.7	+0.4	68	26†	-10	9	3.34	-0.65	1.60	6-7	9.8	11	14	1	16	w.	Newark Water Dept.
Chatham.....	Morris.....	185	39	.....	.....	.....	.....	.....	.....	3.00	-1.04	1.52	7	.....	11	16	7	8	w.	Paul Molitor, Sr.
Chatsworth.....	Burlington.....	90	2	41.8	.....	75	26	6	4	3.36	.....	1.06	6	2.8	8	11	10	10	nw.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	30	.....	.....	80	31	.....	.....	3.08	-0.44	0.85	16	1.5	7	10	5	16	s.	Worthy Hitt.
Culvers Lake.....	Sussex.....	760	42	.....	.....	.....	.....	.....	.....	2.50	-0.82	1.30	6	.....	7	.....	.....	.....	.....	L. S. Deput.
Dover.....	Morris.....	600	59	36.8	+0.8	68	26	1	4	3.11	-0.91	1.54	6	9.5	8	8	13	10	.....	William C. Harris
Egg Harbor City.....	Atlantic.....	63	21	.....	.....	.....	.....	.....	.....	4.28	-0.12	1.14	6	.....	11	19	5	7	nw.	Chas. E. Hall.
Elizabeth.....	Union.....	34	64	.....	.....	73	26	4	4	3.82	-0.14	2.25	6-7	5.3	11	16	3	12	ne.	Union County Park Comm.
Flemington.....	Hunterdon.....	140	57	40.0	.....	70	26†	5	4	2.54	-1.12	0.73	6	6.0	11	17	4	10	w.	Hiram E. Deats
Freehold.....	Monmouth.....	194	39	40.5	+1.5	72	26	4	4	2.41	-2.07	1.00	6	6.2	11	18	5	8	w.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	37	41.2	-0.3	75	31	4	4	4.24	-0.32	1.58	6	7.5	10	17	7	7	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	110	50	40.8	+0.2	71	26	5	4	2.35	-0.43	1.46	6-7	6.5	11	10	11	10	sw.	James R. Pickering.
Indian Mills.....	Burlington.....	100	54	41.8	+0.7	74	26	7	4	3.01	-1.07	1.09	6	7.6	12	11	11	9	w.	Edward Entwistle.
Jersey City.....	Hudson.....	81	45	.....	.....	.....	.....	.....	.....	3.53	-0.64	1.25	6	7.0	12	7	10	14	sw.	Jersey Journal.
Lakewood.....	Ocean.....	54	39	42.5	+2.2	74	26	13	9	3.53	-0.64	1.25	6	7.0	12	7	10	14	sw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	56	40.4	+1.2	72	26	5	3	3.38	-0.41	1.50	2	2.0	8	16	8	7	nw.	Mabel Wollaston.
Layton.....	Sussex.....	480	42	35.0	-0.6	70	26	-9	9	0.71	-2.58	0.17	17	7.5	9	9	6	16	w.	A. M. Dupue.
Little Falls.....	Passaic.....	157	40	37.6	-1.3	71	26	5	4	3.01	-0.76	1.62	7	9.5	12	13	8	10	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	35	40.0	+0.7	73	26	5	4	3.02	-1.15	1.59	6	9.3	11	5	13	13	nw.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	13	35.0	.....	69	26	0	4	3.15	-0.72	1.05	7	9.0	10	19	2	10	nw.	Arthur Barkman.
Marlton.....	Burlington.....	90	1	.....	.....	.....	.....	.....	.....	2.94	.....	1.27	6	8.2	10	14	8	9	sw.	David Griscom.
Millville.....	Cumberland.....	60	2	.....	.....	.....	.....	.....	.....	3.75	.....	0.96	6	4.5	11	14	7	10	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	80	41.3	+1.4	72	26	4	4	2.42	-1.26	1.28	6-7	6.0	9	9	10	12	uw.	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	2	.....	.....	.....	.....	.....	.....	2.92	.....	1.62	6-7	9.5	12	13	9	9	.....	James C. Long.
Newark.....	Essex.....	10	89	38.8	-0.6	73	26	6	4	3.61	-0.14	2.18	6	5.1	9	7	9	15	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	89	40.6	+1.4	71	26	5	4	2.89	-0.67	1.62	6-7	3.6	11	12	7	12	sw.	N. J. Experiment Station
New Milford.....	Bergen.....	12	25	.....	.....	.....	.....	.....	.....	2.91	-0.76	1.58	6	.....	9	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	60	35.4	-0.6	68	26	-2	4	2.30	-1.09	0.96	6	8.5	10	12	6	13	sw.	Irving J. Kern.
Orange.....	Essex.....	140	3	.....	.....	.....	.....	.....	.....	3.40	.....	1.55	7	5.9	11	.....	.....	.....	.....	H. J. Finley.
Paterson.....	Passaic.....	95	72	36.1	-1.0	71	26	3	4	2.68	-1.27	1.54	6	7.5	12	12	7	12	w.	J. W. Cook.
Pomertown.....	Burlington.....	55	14	43.0	+1.5	71	26	8	4	3.13	-0.35	1.06	6	7.1	9	16	5	10	w.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	60	38.6	+0.1	69	26	5	4	2.56	-0.78	1.16	6	6.2	10	18	6	7	.....	Town Engineer.
Plainfield.....	Union.....	120	55	39.4	+0.3	72	26	5	4	2.93	-1.03	1.85	6	5.6	8	7	12	12	n.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	1	.....	.....	.....	.....	.....	.....	2.58	.....	0.93	6	4.3	10	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville.....	Atlantic.....	8	45	40.8	+0.4	73	20	5	4	3.87	-0.46	0.85	6-7	.....	14	18	2	11	s.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	3	.....	.....	.....	.....	.....	.....	3.41	.....	2.09	6	7.0	8	5	13	13	nw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	26	38.2	-0.3	73	26	4	4	3.71	-0.36	2.10	6	9.5	9	10	9	12	nw.	George P. Kirsten.
Runyon.....	Middlesex.....	18	20	38.2	-1.2	69	26	3	9	2.96	-0.36	1.69	6-7	.....	9	16	9	6	w.	N. J. Water Policy Comm.
Sandy Hook.....	Monmouth.....	15	45	38.4	-0.9	70	26	8	4	2.69	-1.35	1.69	6	2.5	11	12	11	8	nw.	U. S. Coast Guard.
Somerville (near).....	Somerset.....	385	60	39.0	+0.2	70	26	3	4	2.06	-1.61	1.17	6	6.2	8	8	10	13	sw.	Richard H. Rogers.
Sussex.....	Sussex.....	450	48	36.0	-0.8	68	26	-2	9	2.24	-0.91	0.50	6-7	6.0	11	16	1	14	ne.	Marshall Hunt.
Toms River.....	Ocean.....	33	22	.....	.....	.....	.....	.....	.....	2.94	-1.46	1.20	6	7.7	9	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	71	40.4	+1.3	72	26	8	4	2.28	-1.12	1.41	6	4.7	10	4	16	11	n.	U. S. Weather Bureau
Trenton No. 2.....	Mercer.....	105	13	41.0	.....	73	26	6	4	2.77	.....	1.65	6	5.7	11	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	50	43.1	+1.9	68	25†	6	4	3.45	-0.68	0.73	6	3.0	15	16	1	14	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	63	.....	.....	.....	.....	.....	.....	3.31	-0.23	0.90	6	.....	10	19	5	7	w.	Robert Jones.
Westfield.....	Union.....	145	3	.....	.....	.....	.....	.....	.....	3.34	.....	2.00	7	8.0	7	17	3	11	sw.	Town Engineer.
Woodcliff Lake.....	Bergen.....	103	25	.....	.....	.....	.....	.....	.....	3.14	-0.41	1.80	6	.....	9	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	8	.....	.....	.....	.....	.....	.....	3.45	.....	1.33	19	.....	6	18	6	7	sw.	Geo. S. Keen
New York, N. Y.....	.....	10	73	39.6	+1.9	68	26	7	4	3.86	+0.22	2.14	6	6.6	12	9	8	14	n.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	73	41.3	+2.2	79	31	7	4	2.92	-0.47	1.47	6	7.8	10	7	8	16	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	39.4	+0.2	85	31	-10	9	3.03	-0.74	2.25	6-7	6.5	10	13	7	11	nw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. † Received too late to be included in the means. T. precipitation less than 0.01 inch rain or melted snow

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated

‡ Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y. W. B. O. Philadelphia-7-16-43-925

Daily Precipitation for March, 1943

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast		.06	.09			.82			T.			.17	.60			.38	.16		.58	.07	.17	.19					1.12	.02		T.		4.43	
Barnegat City ⁴	Coast	.10	.11				.15							.18	.02		.08	.07		.06	T.	.01	1.03					.25	.75	T.	T.		2.06	
Belleplain	Tuckahoe		.20			.90	T.						.20	.68			.48	T.		.74	.05	.01	.18					.75	.05		T.		4.23	
Belmar	Coast	.02	.12				1.32					T.	.11	.40			.33	.06		.20	.01	.11	.06					.33	T.		.02		3.09	
Belvidere	Delaware		.15				1.28					.04	.23	.24			.11	.37		.23			T.								.17		2.82	
Berlin	Mullica		.10				1.50					.10	.50				.21			.25		.15									T.		2.81	
Boonton ³	Passaic	T.	.15				1.40				T.		.15	.16			.09	.21	.18		.01											.08		2.49
Bridgeton	Delaware		.08				.85						.08	.75			.26	.08		.72	.09	T.	.28					.08					3.27	
Brooklawn	do.	T.					.67	T.					.12	.38			.37	.41		.63			.12					T.	T.				2.70	
Burlington	Delaware		.08				1.35	.08	T.				.06	.30			.10			.40			.10										2.47	
Canoe Brook ³	Passaic		.01	.11			.24	1.63					.15	.25			.11	.32		.06	.05										.12		3.05	
Cape May ²¹	Coast		.01	.08		T.				T.			.07	.46			.06	.22		.32	.07	.29	.13					1.55	.04				3.96	
Charlotteburg	Passaic		.08				.80	.80			T.		.15	.20			.39	.40		.11											.20	.15	3.34	
Chatham ⁴	do.			.21			1.0	1.52					.20		.30		.16	.27	.08		.05									.01		.10	3.00	
Chatsworth	Coast		.12				1.06						.66	.45			.45	.04		.68			.21						.14				3.36	
Clayton	Delaware		.13				.59						.15	.35			.85		.84					.26									3.08	
Culvers Lake	do.		.05				1.30	T.					.25	.25			.20			.18	T.	T.								.22	T.		2.50	
Dover	Passaic		.20				1.54					.21		.25			.28	.33		.12											.18		3.11	
Egg Harbor City ²²	Mullica	T.	.14				1.14						.16	.61			.76	.14		.66	.02	.20	.05						.40				4.28	
Elizabeth	Coast		.17				1.50	.75					.11	.25			.72	.07	T.	.07	.03								.04		.02	.08	.01	3.82
Flemington	Raritan		.09				.73	.57					.17	.22			.21	.10		.12	.09									.07		.09	2.54	
Freehold	do.		.05	T.			1.00	.07					.08	.31	T.		.34	.19		.24			.12							.05		.02	2.41	
Hammonton	Mullica		.08				1.58						.12	.40			.43	.05	T.			.32							.38	.02			.02	4.24
Hightstown	Raritan		.08				1.43	.03				T.	.06	.23			.18	.08		.18		T.	.02						.03			.01		2.35
Indian Mills	Mullica		.08				1.09	T.					.10	.52			.30	.03		.57	.01	T.	.22						.05	.02		.02	3.01	
Jersey City	Coast																																	
Lakewood	Metedeconk		.22				1.25	.23					.13	.37			.38	.05		.32			.23						.30	.03		.02		3.53
Lambertville	Delaware	1.50					1.28	T.				.05	.12				.14	.10		.11	T.								T.	.12		.07	.08	3.38
Layton (near)	do.		.05				.08	T.					.09				.02	.17		.11	T.		.02							.09	.08		0.71	
Little Falls ³	Passaic		.04	.06			.17	1.62					.15		.18		.19	.23	.07		.07	T.		.02						.01	T.	.22		3.01
Long Branch ²¹	Coast		.01	.14			1.59					T.	.12	.35			.36	.06		.13	T.	T.	.10							.11	.05		.05	3.02
Long Valley ³	Raritan			.20				1.05					.26	.43	.30		.20	.22	.45		.26	T.								.03		.18		3.15
Marlton	Delaware		.05				1.27	T.					.14	.43			.12	.07		.67			.13						.04	T.		.02		2.94
Millville ²¹	Maurice	T.	.03				.96						.16	.69			.39	.09		.76	.08	.18	.24						.17			T.		3.75
Moorestown ³	Delaware		.03	T.			.03	1.25					.05		.42		.02	T.	.05	.15	.31	.14										T.		2.42
Morris Plains	Passaic		.05				.76	.86					.17	.24			.30	.30	.02	.01	.08									T.	.09	.04		2.92
Newark ¹	Coast	T.	.18				2.18			T.		T.	.12	.20			.65	.06		.06	T.	T.	T.						T.	.05		.11	T.	3.61
New Brunswick	Raritan		.15				.64	.98					.08	.22	T.		.57	.07	T.	.08	.02		T.						T.	.02		.06	T.	2.89
New Milford ²¹	Hackensack		.10				1.58						.14	.17			.53	.08		.07	.01									.23			2.91	
Newton	Delaware		.05				.96	.05				.01	.14	.38			.13	.28		.16	.13		T.							.15			2.40	
Orange ²¹	Passaic		.13				.62	1.55					.14		.18		.48	.05	.03		.05										.07	.10		3.30
Paterson ³	Passaic	T.	.05				1.54					.02	.12	.11			.36	.09		.09	.01								.01		.27	.01		2.63
Pemberton	Delaware		.13				1.06						.21	.45			.46	.06		.49			.26								.01		.21	3.13
Phillipsburg	do.		.19				1.16	T.				.03	.14	.12			.15	.48		.14	.03		T.						T.		.12	T.		2.56
Plainfield	Raritan		.10				1.85					T.		.21			.50	.10		.07	T.	T.	T.							.03		.07	T.	2.93
Plainsboro	Raritan		.11				.93	.51					.08	.31			.23	.09		.25	.02		T.								.05		.05	2.58
Pleasantville ³	Coast		.08				.05	.80					.17	T.	.65		.17	.21	.12	.21	.38		.21	.02						.10	.70		T.	3.87
Rahway ³¹	Rahway			.10			* 2.09				.08	T.		.20	T.		* .85	T.															* .09	3.41
Ridgefield ²	Hackensack		.15				2.10						.08	.23			.65	.10		.10	T.	T.	T.								.28	.02		3.71
Rumson	Coast		.15				.98	.71					.09	.22			.42	.22		.11			T.								.06		.26	2.96
Sandy Hook ⁴¹	Coast	.04					1.69					T.	.06	.20			.34	.09		.10	T.	.03	T.							.01		.09	T.	2.69
Somerville (near)	Raritan		.09				1.17					T.	.21				.27	.11		.05										.05		.11	T.	2.06
Sussex	Hudson		.30				.30	.20				T.	.23	.02			.25	.25		.15	.15		T.							.29	.10		2.24	
Toms River	Coast		.12				1.20						.09	.45			.35	.09		.40		.20								.04			2.94	
Trenton ¹¹	Delaware	.01	.16				1.41					T.	.05	.24			.07	.05	T.	.27	T.	T.	T.						T.	.01		.01	T.	2.28
Trenton No. 22	Delaware	T.	.13				1.65				.01		.05	.34			.17	.08		.27		.01	.01						.05			T.	T.	2.77
Tuckerton	Coast		.15				.73	.32					.06	.34	.07		.47	.06	.15	.61	.03		.18						.14	.12		.02		3.45
Vineland ³	Maurice		.05				.90						.01	.80			* .50		.65	.10			.20											3.31
Westfield ³¹	Rahway	T.	.10				T. 2.00						.16		.22		.70			.08										T.			.08	3.34
Woodcliff Lake ²¹	Hackensack		.09				1.80						.12	.18			* .58	* .07		.12												.22		3.14
Woodstown	Delaware		.10				1.20							.60						1.33	.22												3.45	
New York, N. Y. ¹¹	Coast	T.	.13				2.14				T.		.01	.08	.26		.81	.10		.08	.01	T.	.01								.16	T.	3.86	
Phila., Pa. ¹¹	Delaware	T.	.05				1.47					T.	.07	.32			T.	.04	.03		.63	T.	.22	.03					T.	T.	.06		T.	2.92

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight. ⁴ Precipitation is from 1:30 a. m. to 1:30 a. m. ² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. [†] Precipitation measured with recording gage. * Included in the next following measurement. T. Trace, or less than 0.01 inch Time indicated here is 75th meridian, mean sun time Amounts in italics are estimated.

Daily Temperatures for March, 1943

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Atlantic City*.....	Maximum.....	43	39	32	31	40	51	40	33	35	48	53	62	42	50	49	51	54	56	53	70	45	41	45	54	67	59	63	47	39	58	57	48.3	
	Minimum.....	33	30	14	10	31	35	26	20	20	31	39	42	32	31	39	44	41	41	42	41	32	31	27	33	43	49	43	37	30	36	42	33.7	
Barnegat City†.....	Maximum.....	39	35	31	29	44	49	41	31	34	48	52	60	40	49	50	54	58	58	46	63	43	41	44	57	65	60	52	43	37	48	44	46.6	
	Minimum.....	30	27	10	7	26	33	22	13	20	31	38	36	31	30	33	39	38	32	37	38	30	29	26	29	43	40	42	35	32	34	39	30.6	
Belleplain.....	Maximum.....	47	44	35	28	51	55	37	34	60	66	60	49	57	62	59	66	63	62	71	63	41	44	55	67	72	61	55	48	59	79	64.9 ^b		
	Minimum.....	24	18	17	5	20	28	11	9	18	38	46	29	23	28	28	41	28	37	41	28	27	24	20	35	32	48	32	24	25	40	27.4 ^b		
Belvidere.....	Maximum.....	40	34	28	27	46	40	37	30	33	52	50	53	47	55	61	55	47	64	49	60	49	44	45	56	67	70	61	51	60	44	70	48.8	
	Minimum.....	27	21	15	3	18	23	23	14	8	25	36	42	29	20	28	44	41	28	35	38	30	29	26	26	37	31	39	29	24	31	37	27.6	
Boonton§§.....	Maximum.....	39	32	22	23	43	39	31	26	30	53	52	52	38	53	59	44	48	60	41	59	40	43	42	53	60	67	55	46	45	42	44.5		
	Minimum.....	26	24	19	4	14	23	13	8	5	28	38	33	19	25	28	38	38	28	29	37	31	30	25	26	30	30	32	31	23	26	32	24.3	
Bridgeton.....	Maximum.....	50	40	36	31	51	53	52	38	40	60	67	59	53	58	64	66	64	65	62	70	55	46	45	59	68	76	65	56	48	61	85	56.2	
	Minimum.....	29	26	18	9	22	30	30	18	14	22	38	47	32	25	32	49	43	38	40	42	30	28	25	25	37	37	50	34	27	28	45	31.1	
Burlington.....	Maximum.....	50	45	35	28	48	53	44	29	37	62	62	56	51	59	70	75	65	74	72	75	55	40	59	60	66	72	70	67	49	54	62	56.5	
	Minimum.....	30	26	19	8	18	28	27	19	16	27	40	48	32	23	31	47	44	36	46	40	32	29	37	25	42	41	53	33	27	29	38	32.0	
Canoe Brook§§.....	Maximum.....	41	36	21	24	42	42	27	29	30	52	55	57	58	53	59	45	47	60	42	66	42	46	46	56	63	72	65	47	45	44	47	47.1	
	Minimum.....	29	21	20	4	7	16	22	12	3	8	29	36	27	24	17	29	38	26	33	37	26	30	24	25	32	27	43	28	22	25	36	24.4	
Cape May*.....	Maximum.....	48	38	31	30	40	51	40	29	37	48	51	54	42	53	48	49	52	49	50	63	45	40	42	55	64	68	60	51	42	60	75	48.5	
	Minimum.....	33	31	20	15	30	37	23	23	19	31	39	40	34	32	38	44	41	39	43	48	31	31	30	35	51	44	45	36	30	37	43	34.1	
Charlotteburg.....	Maximum.....	46	37	29	24	43	44	37	25	36	48	51	51	51	53	58	58	47	60	62	59	55	42	41	55	59	68	68	64	43	41	49.1		
	Minimum.....	24	17	12	1	13	20	18	8	-10	20	38	38	29	22	21	36	35	26	34	34	27	26	20	22	38	38	48	26	19	25	33	24.3	
Chatsworth.....	Maximum.....	48	41	33	28	48	52	55	32	34	60	68	57	55	55	63	62	65	68	62	69	60	48	44	56	67	75	68	53	45	55	63	54.5	
	Minimum.....	27	20	20	6	18	25	29	15	8	22	40	49	32	15	27	48	44	28	38	40	29	29	25	20	43	32	51	33	25	24	36	29.0	
Clayton.....	Maximum.....	51	45	56	32	48	48	55	....	38	61	62	60	53	54	64	67	64	63	68	67	66	....	54	46	67	73	71	60	57	65	80	58.4 ^b
	Minimum.....	41	34	27	24	43	38	....	26	27	52	52	52	39	54	58	51	47	63	62	60	55	43	42	54	63	68	61	47	45	42	43	47.1 ^b
Dover.....	Maximum.....	27	20	9	1	16	22	....	11	2	24	41	36	27	28	26	39	37	30	36	36	29	28	23	24	32	43	28	22	30	36	26.6 ^a	
	Minimum.....	44	39	30	25	47	43	42	32	33	55	60	60	54	58	64	58	49	64	59	64	54	47	47	57	69	73	68	51	51	46	46	51.3	
Elizabeth.....	Maximum.....	30	25	18	4	17	26	27	16	14	28	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum.....	47	43	33	25	47	47	35	32	33	57	57	55	54	58	61	61	45	65	59	63	56	42	43	58	66	70	70	52	51	51	51	51.2	
Flemington.....	Maximum.....	29	23	19	5	13	25	25	15	10	25	36	42	33	24	28	41	40	26	39	38	30	30	26	26	41	33	50	30	25	29	35	28.7	
	Minimum.....	45	37	31	25	47	53	55	30	32	56	65	57	48	56	61	60	56	65	66	64	52	44	45	56	66	72	65	51	46	50	50	51.5	
Freehold.....	Maximum.....	27	25	16	4	17	28	25	16	13	25	41	46	31	22	32	43	42	33	38	37	28	28	23	27	41	36	49	31	25	27	38	29.5	
	Minimum.....	52	38	34	29	50	54	50	26	10	61	67	59	48	56	66	66	64	65	66	70	40	43	44	57	65	74	65	52	47	58	75	54.1	
Hammononton.....	Maximum.....	24	20	15	4	15	25	24	15	10	24	38	45	30	21	28	45	30	26	46	42	43	31	34	27	26	24	23	40	38	41	23	26	48.3
	Minimum.....	48	39	32	25	46	50	54	30	32	57	61	57	52	55	62	60	62	64	59	64	54	45	45	56	65	71	66	52	46	51	50	51.9	
Hightstown.....	Maximum.....	28	25	18	5	18	27	26	18	12	24	41	49	32	21	42	42	33	38	38	29	29	25	26	41	38	51	31	24	28	35	29.8		
	Minimum.....	50	38	33	27	49	57	56	29	37	59	65	58	46	55	63	66	65	66	65	67	54	42	44	56	67	74	67	53	46	57	75	54.1	
Indian Mills(near).....	Maximum.....	27	20	16	7	16	26	28	16	9	21	42	46	32	23	29	50	44	31	39	40	28	28	26	22	42	38	51	33	25	27	37	29.6	
	Minimum.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Jersey City.....	Maximum.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum.....	60	39	32	27	48	47	54	30	33	60	67	61	53	56	63	63	65	68	59	68	58	43	46	56	69	74	70	52	48	54	54	53.8	
Lakewood.....	Maximum.....	28	24	21	21	18	28	29	17	13	23	43	50	32	25	28	45	34	38	39	29	30	25	25	44	36	52	34	27	26	38	31.2		
	Minimum.....	49	41	28	47	47	45	38	30	39	59	59	56	52	57	63	59	50	66	58	61	51	45	45	58	67	72	64	52	50	54	59	52.3	
Lambertville.....	Maximum.....	27	18	5	17	18	26	25	16	10	26	39	45	31	21	27	41	40	28	32	38	29	30	26	25	39	31	48	30	26	30	36	28.4	
	Minimum.....	46	32	28	26	43	34	37	25	32	51	47	49	47	53	59	50	47	63	54	63	44	46	42	48	61	70	63	49	45	40	59	46.9	
Layton(near).....	Maximum.....	23	16	10	-1	12	20	20	-2	-9	20	33	35	24	21	22	35	36	26	32	36	29	23	33	18	37	24	45	20	17	24	35	23.1	
	Minimum.....	41	34	29	25	46	40	30	28	34	54	55	57	51	56	59	54	56	50	64	53	42	45	44	57	64	71	58	47	48	43	43	47.7	
Little Falls§§.....	Maximum.....	29	24	19	5	10	23	24	14	7	16	34	39	32	21	27	37	37	30	34	36	31	29	25	30	31	52	30	23	30	35	27.5		
	Minimum.....	40	35	29	26	47	54	40	29	32	50	63	59	41	56	57	56	58	65	65	65	40	43	44	54	66	73	60	48	44	49	42	48.7	
Long Branch*.....	Maximum.....	30	28	9	5	23	31	26	18	18	33	44	42	27	25	33	44	44	36	38	38	29	30	26	28	46	41	44	35	28	31	38	31.2	
	Minimum.....	37	34	25	24	44	37	31	27	31	51	57																						

CLIMATOLOGICAL DATA

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NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

APRIL, 1943.

No. 4

GENERAL SUMMARY.

Since State records were begun in 1885, there has been only one April colder than this one. Temperature was continuously below normal except for about seven days. No records were broken for extreme cold, though the readings of 11° at Belleplain, Layton, and Charlotteburg were only 8° above the April record for the State. Northern stations recorded freezing temperatures on 15 to 20 days during the month. The warmest day at most stations was the 25th when 81° was reached at Bridgeton and 80° at two other stations, thus not equaling the maximum of 85° at Bridgeton on March 31st this year. The month was in marked contrast to April, 1941 and 1942, both of which were unusually warm.

This was the fourth consecutive month with precipitation below normal, and the accumulated deficiency from January 1st to the end of April this year was almost four inches. The average this month was 77% of normal. There was rain on a large number of days, but the principal storm occurred on the 19-20th, when many stations recorded more than half their monthly totals. Rainfall was distributed with more than ordinary uniformity over the State. Snowfall was only a trace, except at a few northern stations where fractions of an inch were recorded.

Sunshine was below normal in the interior, but somewhat above on the seacoast. There were gale winds in coastal areas on the 5th, 12th, and 19th, but no destructive storms occurred.

TEMPERATURE.

The monthly mean temperature for the State, as computed from observations of 40 stations, was 45.5°, which was 4.1° below normal. The highest temperature was 81° at Bridgeton on the 25th, and the lowest, 11°, at three stations on the 7th and 16th. The highest monthly mean temperature was 49.0° at Clayton, and the lowest, 41.9°, at Newton. The temperature departure from the normal for the year, 1943, to date, for the State is -0.7°.

PRECIPITATION.

The mean total precipitation for the State, as computed from observations of 58 stations, was 2.82 inches, which was 0.83 inch below normal. The average total snowfall at 24 selected stations was a trace, which was 1.2 inches below normal. The greatest monthly precipitation was 4.02 inches, at two stations and the least, 1.35 inches, at Boonton. The greatest amount of precipitation in any 24 consecutive hours was 2.45 inches at Atlantic City on the 19-20th. The average for the Highlands was 2.61 inches; for the Red Sandstone Plain 2.59 inches; for the Southern Interior 2.96 inches; and for the Sea Coast 3.23 inches.

The precipitation accumulated departure from the normal for the year 1943, to date, by sections, is: The Highlands, -3.33 inches; Red Sandstone Plain, -4.37 inches; Southern Interior, -3.83 inches; Sea Coast, -2.91 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 1, 2, 12, 20, 21, 23.

SLEET: 2, 4, 7, 8, 19.

THUNDERSTORMS: 2, 12, 13, 14, 19, 21, 23, 24, 30.

HAIL: 2, 12.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.41	18	29.20	13	17.8	52	ne.	19	72	60	68	71	562
Long Branch.....	30.41	18	29.17	12	16.7	59	ne.	19	70	51	63	70	592
Trenton.....	30.41	18	29.17	12	11.5	34	n.	6	67	47	56	53	568

COMPARATIVE DATA FOR APRIL.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	0.1 inch or more prec.	Clear	Partly cloudy
1885.....	48.4	88	26	2.79	.....	.....	.....	.....
1886.....	50.6	86	27	3.40	.....	.....	.....	.....
1887.....	47.3	87	16	2.70	.....	7	.....	.....
1888.....	47.9	92	22	3.28	.....	9	.....	.....
1889.....	51.2	83	25	5.32	.....	12	.....	.....
1890.....	50.4	86	21	2.65	.....	8	.....	.....
1891.....	52.0	88	20	2.19	.....	8	13	11
1892.....	49.3	87	19	2.49	.....	8	9	13
1893.....	49.2	82	19	5.21	.....	11	9	10
1894.....	50.3	88	10	3.09	.....	9	12	9
1895.....	49.1	89	19	4.88	T.	10	11	7
1896.....	52.4	98	12	1.35	3.1	7	13	10
1897.....	50.4	89	19	3.79	T.	9	14	11
1898.....	47.8	81	13	3.74	2.9	11	8	11
1899.....	49.9	88	18	1.73	T.	4	16	10
1900.....	50.8	82	18	2.29	T.	6	14	9
1901.....	48.3	89	23	6.31	0	12	8	7
1902.....	50.2	93	20	3.62	0	9	10	11
1903.....	50.9	92	18	3.97	0	9	13	7
1904.....	46.7	85	16	3.42	0.1	10	9	12
1905.....	49.9	84	18	2.88	0.1	10	12	11
1906.....	51.2	87	17	3.64	T.	8	15	10
1907.....	45.2	83	19	3.78	4.8	11	11	9
1908.....	51.2	93	13	2.72	T.	11	14	9
1909.....	50.2	88	17	5.97	0.8	13	10	11
1910.....	53.5	88	20	5.34	0	12	9	11
1911.....	47.4	88	14	4.11	2.6	11	10	10
1912.....	50.4	82	18	3.56	0	14	9	10
1913.....	52.1	89	19	5.78	T.	11	14	7
1914.....	48.4	89	16	3.67	0	11	13	10
1915.....	54.4	96	20	2.71	11.5	9	14	10
1916.....	48.2	85	21	3.32	4.4	13	10	9
1917.....	48.8	88	21	2.39	4.7	9	15	8
1918.....	49.8	81	22	4.05	2.6	12	11	8
1919.....	49.3	85	15	3.06	T.	10	13	7
1920.....	48.0	85	13	4.50	T.	13	12	9
1921.....	56.3	87	20	3.57	0.4	11	13	6
1922.....	51.0	89	18	2.55	T.	10	15	7
1923.....	50.0	91	3	3.55	0.5	9	16	6
1924.....	48.0	81	18	6.15	6.6	11	15	6
1925.....	51.4	88	15	2.40	0	9	15	7
1926.....	46.4	87	14	2.05	T.	8	13	10
1927.....	47.5	93	17	2.42	0.3	9	14	7
1928.....	47.4	85	16	5.26	0.9	12	12	8
1929.....	51.1	94	25	6.43	T.	15	10	5
1930.....	47.6	79	18	2.34	T.	9	13	7
1931.....	49.8	80	20	2.85	T.	9	15	6
1932.....	48.3	82	18	2.71	0.1	7	15	7
1933.....	50.4	85	20	4.84	0.2	11	12	7
1934.....	49.4	85	21	3.89	T.	13	15	6
1935.....	48.7	91	22	2.27	0.3	10	10	8
1936.....	48.0	90	19	3.23	0.1	12	11	8
1937.....	49.3	85	16	4.64	T.	12	11	9
1938.....	53.0	94	12	2.82	2.8	9	14	8
1939.....	48.3	89	20	5.12	0.1	14	9	8
1940.....	45.5	79	15	5.62	2.2	12	9	8
1941.....	55.4	96	19	2.82	0	5	19	6
1942.....	53.1	95	18	1.39	1.6	4	15	8
1943.....	45.5	81	11	2.82	T.	11	12	9
Period.....	49.6	98	3	3.65	1.2	10	12	9

Climatological Data for April, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches					No. of days					Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	70	46.4	-1.4	80	28	25	7	4.00	+1.01	2.45	19-20	0	12	7	13	10	s.	U. S. Weather Bureau.
Barneget City††.....	Ocean.....	36	§23	44.8	.....	75	28	26	4	3.18	.....	1.39	19	.....	7	18	7	5	w.	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	49	46.8	-3.5	79	1†	11	7	2.54	-0.14	1.12	19	.....	12	.....	.....	.....	w.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	1	.....	.....	.....	.....	.....	.....	3.56	.....	1.90	19	.....	12	.....	.....	.....	w.	City Water Dept.
Belvidere.....	Warren.....	289	51	45.8	-3.9	75	25	21	16	3.49	-0.27	0.88	19	T.	14	17	4	9	.....	Miss C. S. Hixson.
Berlin.....	Camden.....	70	2	.....	.....	.....	.....	.....	.....	2.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	Samuel H. McCulley.
Boonton.....	Morris.....	250	§53	43.2	-4.8	73	26	20	16	1.55	-2.55	0.35	13	.....	10	20	1	9	nw.	John Kline.
Bridgeport.....	Cumberland.....	30	60	48.8	-3.4	81	25	22	7	3.04	-0.56	1.87	19	0	8	15	6	9	nw.	Bennett K. Matlack
Brooklawn.....	Camden.....	30	2	.....	.....	.....	.....	.....	.....	2.56	.....	1.26	19	.....	7	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	§57	48.6	-3.3	78	25	24	16	2.61	-1.13	1.15	19	T.	12	16	9	5	w.	Public Service E. & G. Co.
Canoe Brook.....	Essex.....	180	13	43.0	-6.9	68	27	17	16	3.06	-0.77	0.84	20	.....	14	16	6	8	nw.	N. J. Water Policy Comm.
Cape May††.....	Cape May.....	17	55	46.8	-1.6	77	28	26	7	2.73	-0.26	1.90	19-20	T.	11	6	18	6	nw.	Naval Air Station.
Charlotteburg†††.....	Passaic.....	760	51	43.0	-3.7	74	25	11	16	2.32	-2.00	0.54	20	T.	13	9	4	17	w.	Newark Water Dept.
Chatham.....	Morris.....	185	39	.....	.....	.....	.....	.....	.....	2.75	-1.47	0.67	13	.....	14	10	11	9	.....	Paul Molitor, Sr.
Chatsworth.....	Burlington.....	90	2	46.6	.....	80	25	17	16	2.06	.....	0.55	12	.....	6	8	18	4	sw.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	30	49.0	-1.9	77	25	22	15†	3.55	-0.06	1.82	19	.....	7	9	4	17	n.	Worthy Hitt.
Culvers Lakett.....	Sussex.....	760	42	.....	.....	.....	.....	.....	.....	2.18	-1.35	0.53	19	0.2	12	.....	.....	.....	.....	L. S. Depue.
Dover.....	Morris.....	600	59	43.0	-4.4	74	25	19	16	3.04	-1.02	0.76	19	0.4	13	3	13	14	.....	William C. Harris
Egg Harbor City.....	Atlantic.....	63	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chas. E. Hall.
Elizabeth.....	Union.....	34	64	.....	.....	78	25	.....	.....	2.98	-0.86	0.69	20	T.	13	17	4	9	nw.	Union County Park Comm.
Flemington.....	Hunterdon.....	140	§57	46.2	-4.0	73	25†	21	16	2.50	-1.12	0.41	20	.....	14	17	8	5	w.	Hiram E. Deats
Freehold.....	Monmouth.....	194	§39	46.4	-3.8	76	25	18	7	3.13	-0.58	1.42	19-20	T.	13	12	14	4	nw.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	§37	46.1	-5.9	79	25	18	4	4.02	+0.24	2.15	19-20	T.	14	17	9	4	nw.	J. G. Wilson.
Hightstown.....	Mercer.....	110	50	46.4	-3.8	76	25	21	7	2.50	-1.39	1.12	19-20	T.	12	12	12	6	nw.	James R. Pickering.
Indian Mills††, 2 mi. W.	Burlington.....	100	54	46.5	-4.0	79	25	19	4	3.29	-0.51	1.71	19-20	T.	11	7	19	4	nw.	Edward Entwistle.
Jersey City††.....	Hudson.....	81	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jersey Journal.
Lakewood.....	Ocean.....	54	39	47.2	-2.4	80	25	21	16	3.27	-0.68	1.20	19	T.	12	4	13	13	nw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	56	46.6	-3.4	78	25	21	16	3.00	-0.80	0.85	19	T.	11	14	9	7	sw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex.....	480	42	42.1	-5.5	76	25	11	16	1.98	-1.51	0.37	20	0.5	10	7	4	19	nw.	A. M. Depue.
Little Falls.....	Passaic.....	157	40	45.4	-4.0	77	25	21	16	2.74	-1.42	0.91	20	T.	15	9	11	10	nw.	Passaic Valley Water Co
Long Branch.....	Monmouth.....	34	35	45.2	-3.0	78	25	22	7	3.54	-0.73	1.80	19	0.1	14	6	12	12	nw.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	13	42.9	.....	76	25	16	16	2.97	-0.45	0.55	20	T.	14	14	9	7	nw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington.....	90	1	.....	.....	.....	.....	.....	.....	3.13	.....	1.61	19	0.1	12	15	7	8	nw.	David Griscom.
Millville.....	Cumberland.....	60	2	.....	.....	.....	.....	.....	.....	3.60	.....	2.33	19	.....	10	18	7	5	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	80	46.8	-3.6	77	25	25	7†	3.03	-0.62	1.68	20	T.	11	10	12	8	nw.	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	2	.....	.....	.....	.....	.....	.....	3.23	.....	0.76	12-13	0.1	11	17	7	6	.....	James C. Long.
Newark.....	Essex.....	10	89	45.9	-4.1	79	25	24	7	2.50	-1.38	0.87	19	T.	13	6	14	10	nw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	89	46.6	-3.0	77	25	21	7	1.70	-1.91	0.55	20	T.	10	10	9	11	nw.	N. J. Experiment Station
New Milford††.....	Bergen.....	12	25	.....	.....	.....	.....	.....	.....	2.57	-1.15	0.82	19	.....	12	.....	.....	.....	.....	Hackensack Water Co
Newton.....	Sussex.....	769	60	41.9	-5.9	73	25	16	6	3.25	-0.28	0.56	19	0.5	14	9	5	16	nw.	Irving J. Kern.
Orange.....	Essex.....	140	3	.....	.....	.....	.....	.....	.....	2.73	.....	0.78	19	.....	12	.....	.....	.....	.....	H. J. Finley.
Paterson.....	Passaic.....	95	72	43.9	-6.7	78	25	21	6†	2.60	-1.23	0.62	12	T.	13	7	15	8	nw.	J. W. Cook.
Pemberton.....	Burlington.....	55	14	48.2	-2.7	76	25	23	16	2.78	-0.82	0.62	19	T.	12	8	6	16	w.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	§60	44.6	-4.8	75	25	22	7†	3.37	-0.02	0.68	19	T.	13	12	9	9	.....	Town Engineer.
Plainfield.....	Union.....	120	55	46.0	-3.4	78	25	23	7†	2.51	-1.28	0.56	19	T.	11	6	14	10	nw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	1	.....	.....	.....	.....	.....	.....	3.09	.....	0.98	19	.....	12	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	§45	.....	.....	.....	.....	.....	.....	3.23	-0.19	1.87	20	.....	10	12	9	9	nw.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	3	.....	.....	.....	.....	.....	.....	2.12	.....	0.75	20	0	8	2	17	11	nw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	26	45.0	-3.4	79	25	20	4	2.21	-1.24	1.00	19	T.	11	7	12	11	nw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	20	42.9	-5.2	78	28	12	16	2.55	-1.07	0.71	19	.....	9	16	12	2	w.	N. J. Water Policy Comm.
Sandy Hook††.....	Monmouth.....	15	45	45.1	-3.2	74	25	25	7	2.21	-1.41	1.25	19	T.	10	20	6	4	nw.	U. S. Coast Guard.
Somerville, 4 miles N.	Somerset.....	385	60	45.0	-5.4	76	25	19	7	2.39	-1.27	0.56	19	T.	11	10	8	12	nw.	Richard H. Rogers.
Sussex.....	Sussex.....	450	48	44.1	-5.2	74	25	17	16	2.41	-1.12	0.38	22	T.	14	10	2	18	nw.	Marshall Hunt.
Toms River.....	Ocean.....	33	22	.....	.....	.....	.....	.....	.....	4.02	.....	2.00	19	.....	11	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	71	46.0	-3.8	77	25	25	7	2.10	-0.84	1.02	19-20	T.	12	6	15	9	nw.	U. S. Weather Bureau.
Trenton No. 2.....	Mercer.....	105	13	46.6	.....	79	25	24	7	2.79	.....	1.16	19	0.1	13	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	50	46.6	-2.8	78	28	22	7	3.58	-0.19	1.20	19	T.	11	14	4	12	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	63	.....	.....	.....	.....	.....	.....	2.71	-0.89	2.00	19	.....	6	11	17	2	w.	Robert Jones.
Westfield.....	Union.....	145	3	.....	.....	.....	.....	.....	.....	2.55	.....	0.80	20	T.	7	13	9	8	sw.	Town Engineer.
Woodcliff Lakett.....	Bergen.....	103	25	.....	.....	.....	.....	.....	.....	2.33	-1.47	0.66	19	.....	12	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	8	.....	.....	.....	.....	.....	.....	3.23	-0.57	2.00	19	.....	6	16	10	4	w.	Geo. S. Keen
New York, N. Y.....	.....	10	73	45.4	-4.0	74	25	23	6	2.25	-0.98	0.98	19-20	T.	13	7	16	7	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	73	46.8	-3.8	77	25	25	7	2.61	-0.44	1.45	19-20	T.	13	4	13	13	nw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	45.5	-4.1	81	25	11	7†	2.82	-0.03	2.45	10-20	T.	11	12	9	9	nw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. †† Received too late to be included in the means. T. precipitation less than 0.01 inch rain or melted snow

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia-7-30-43-925

Daily Precipitation for April, 1943

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ¹ ...	Coast.....	.01	...		.02	T.		.01	.05		.19		.57	.29				T.	.01	2.42	.03	.29	T.					T.		.11	4.00	
Barnegat City ⁴ ...	Coast.....	.07	.15		.04			T.			T.		.44	.39				T.		1.39	T.	.40	T.							.30	8.18		
Belleplain	Tuckahoe												.12	.29	.29					1.12	.43	.20	T.							.30	2.54		
Belmar	Coast.....	.20	.09		.07	T.		.02	T.				.60	.32	T.			.11		1.90	.02	.20	.01		.11						3.56		
Belvidere	Delaware	.30	.16	T.		.16	T.						.45	.09	.31	.02	T.	.33		.88	.18	.29	.12					.02	T.	T.	3.49		
Berlin	Mullica																	2.00		.70			.20	.12				.05			2.85		
Boonton ³	Passaic	T.	.01	T.		.02	T.		.02					.35	.05		T.	.08	.16	T.	.30	.28	.08						T.		T.	1.35	
Bridgeton	Delaware	.03	.05						.03				.28					.50		1.87	.09	.19						T.			3.04		
Brooklawn	do	.20	T.			T.		T.					.22		.12			.15	T.	1.26	.43	.18						T.		T.	2.56		
Burlington	Delaware	.02	.17			.10			.03				.35	.02	.19			.18		1.15	.18	.19								.03	2.61		
Canoe Brook ³	Passaic	.03	.18	.06		.09			.01				.82	.10				.12	.26	.08	.84	.29	.18						T.			3.06	
Cape May ²	Coast	.07			T.			.01	.02	.01	.11		.28	.21				.01	T.	1.89	.01	.11	T.					T.	T.		T.	2.73	
Charlotteburg	Passaic	.04	.15			.05			.04				.20	.30	.12			.23		.16	.54	.20	.09							.20	2.32		
Chatham ³	do	.02	.20	.10		.11	T.		.02					.67	.12			.11	.27	.03	.54	.31	.21	.04					T.			2.75	
Chatsworth	Coast		.18										.55	T.	.40						.45	.33	.16									2.06	
Clayton	Delaware					.32							.20		.44			.17		1.82	.20	.40										3.55	
Culvers Lake	do	.12	.02						.03				.30	.08	.16			.05		.53	.33	.22	.11							.23		2.18	
Dover	Passaic	.17	.12	T.	.12			.04					.68	.15	T.	T.		.48	*	.76	.02	.32							.01		.17	3.04	
Egg Harbor City ² ...	Mullica																																
Elizabeth	Coast	.10	.11			.08	T.	T.	T.				.39	.15	.22			.23		.40	.69	.28	.12						.01		.20	2.98	
Flemington	Raritan	.08	.11			.09			.02				.23	.24	.13	T.	T.	.39		.17	.41	.19	.16					T.	.02		.26	2.50	
Freehold	do	.13	.10			.08			.05				.47	T.	.23	T.		.17		1.00	.42	.33	.13						.01		.01	3.13	
Hammonton	Mullica		.28		.06				.08				.45	.04	.32	T.	.03	.10		1.70	.45	.39	.02	.04					.06			4.02	
Hightstown	Raritan	.10	.01	T.		.06			T.				.44		.16		T.	.11		.92	.20	.36	.07						.02		.05	2.50	
Indian Mills	Mullica	.15	.06	T.		.03			.01				.30	T.	.34	T.		.14		1.48	.23	.36	T.						T.		.19	3.29	
Jersey City	Coast																																
Lakewood	Metedeconk		.24			.10			.02				.44	.10	.26	T.		.10		1.20	.50	.25	.04						.02		T.	3.27	
Lambertville	Delaware	.15	.65			.10			.05				.23	.20	T.	T.	T.	.28		.85	.20	.21	.08					T.				3.00	
Layton	do	.05	.08			T.	T.		.16				.31	.10	.29	T.	T.	T.		.37	.27	.12									.23	1.98	
Little Falls ³	Passaic	.03	.23	.06		.06	.01		.01				.62	.09	T.			.15	.28	.03	.91	.14	.11						.01			2.74	
Long Branch ²	Coast	.20	T.	T.	.05	T.	T.	.01	.03				.70	.35	.01	T.		.09	T.	1.80	.03	.16	.01								.09	3.54	
Long Valley ³	Raritan	.02	.32	.12		.12			.06				.24	.36				.23	.37	.10	.55			.18	.24		.06					2.97	
Marlton	Delaware	.22	T.	T.		.09			.04				.19	.26	.01			.16		1.61	.13	.17	T.					.04			.27	3.13	
Millville ²	Maurice	.12							.02		.07		.45	.38				.03		2.33		.06	.01								.13	3.60	
Moorestown ³	Delaware		.40		T.	.12			.03				.23	.15	T.			.03		12	.02	1.68	.17	.07	T.					.04		3.03	
Morris Plains	Passaic	T.	.26	T.		.10	T.						.10	.66	.16	T.		.50		.24	.61	.30	.18						T.		.12	3.23	
Newark ¹	Coast	.18	.04		.07	T.	T.	.01	T.		T.		.44	.14	T.	T.		.20	.01	.87	.05	.31	.01					T.	T.		.17	2.50	
New Brunswick	Raritan	.04	.14			.02	T.		T.				.25		.13		T.	.15		.55	.26	.07	T.					T.	T.		.09	1.70	
New Milford ²	Hackensack	.16	.04		.03								.45	.10				.39	.02	.82	.03	.12	.02							.35		2.57	
Newton	Delaware	.42	.02		.12				.06				.53	.05	.15	T.	T.	.23		.56	.34	.25	.12						.02		.38	3.25	
Orange ²	Passaic	.20	.06		.06								.59	.20				.34	.02	.78	.03	.33	.01							.11		2.73	
Paterson ²	Passaic	.26	.13	T.	.06	.01	T.	T.					.62	.14	T.	T.		.41	.01	.41	.05	.24	.01						T.		.25	2.60	
Pemberton	Delaware	T.	.23	T.	T.	.04			.12				.28	.24	.34	T.		.13	T.	.62	.44	.30	T.						.03		.01	2.78	
Phillipsburg	do	.23	.08	T.	.12	T.	T.	T.	T.				.54	.34	.08	T.	T.	.45	.05	.68	.05	.41	.09						T.	T.		.25	3.37
Plainfield	Raritan	.11	.10			.10	T.	T.	T.				.51	T.	.22	T.		.27	T.	.56	.15	.27	.10						T.		.12	2.51	
Plainsboro	Raritan		.17	T.		.10			.04				.39	.09	.19			.18		.98	.67	.13	.06								.09	3.09	
Pleasantville ³	Coast		.04	T.		.01			.02			.16						T.		1.67	.87	.24	.01						T.			3.23	
Rahway ³	Rahway		.15			.08								.43	.13				.20	T.	.75	.28	.10									2.12	
Ridgefield ²	Hackensack	.18	.03		.01	.05		T.	T.									.32	T.	1.00	.10	.18	.10						.01		.13	2.21	
Runyon	Coast	.05	.12										.52		.23			.12		.71	.40	.33								.07		2.55	
Sandy Hook ⁴	Coast	.13	.02		.07	T.		T.	T.				.23	.16	T.	T.	T.	.09	T.	1.25	.01	.21	T.						T.		.04	2.21	
Somerville	Raritan	.15	.02			.09	T.		T.				.04		.25	T.		.45		.56	.25	.28	.10								.20	2.39	
Sussex	Hudson	.06	.05	T.		.10	T.		.09				.25	.12	.14		T.	.08		.33	.31	.26	.38						.02		.22	2.41	
Toms River	Coast	.10	.20		.30								.20	.40				.05		2.00		.60	.10						.05		.02	4.02	
Trenton ¹	Delaware	.14	T.		.02	T.		T.	T.				.31	.13	T.	T.	T.	.14	.01	.99	.06	.24	.01						.03		.02	2.10	
Trenton No. 2 ²	Delaware	.19	.01	T.	.08	T.		.02					.49	.22	T.	T.	T.	.17	.07	1.16	.01	.24							.07		.06	2.79	
Tuckerton	Coast		.20	T.		.08																											

Daily Temperatures for April, 1943

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum....	59	69	41	50	59	43	44	59	56	54	54	55	50	45	42	47	47	44	49	55	51	55	54	58	72	54	80	61	62	...	54.2	
	Minimum....	40	38	30	27	37	30	25	39	41	33	30	41	36	33	30	33	46	39	41	40	41	42	42	41	48	51	47	45	40	...	38.5	
Barnegat City†.....	Maximum....	55	65	40	51	56	40	46	58	53	53	54	52	48	44	48	55	48	42	46	45	52	55	55	62	71	54	75	60	61	...	58.2	
	Minimum....	40	36	28	26	34	27	27	34	38	31	30	32	36	28	27	28	46	37	39	40	40	41	39	36	46	49	44	44	41	...	36.3	
Belleplain.....	Maximum....	79	68	58	49	61	58	48	56	62	64	52	53	60	59	43	51	60	60	46	62	59	58	63	66	76	71	73	79	70	66	...	61.0
	Minimum....	40	38	28	15	40	26	11	29	29	38	26	22	35	31	18	16	42	35	38	28	37	42	27	24	41	55	37	52	32	43	...	32.5
Belvidere.....	Maximum....	58	62	44	51	53	43	48	60	62	52	55	48	60	57	41	45	59	59	48	64	62	58	68	64	75	70	67	68	68	63	...	57.7
	Minimum....	38	32	28	25	32	23	22	33	34	39	28	25	33	29	23	21	36	30	37	36	39	40	32	38	40	51	38	48	41	47	...	33.9
Boonton§.....	Maximum....	63	60	32	49	49	32	47	52	56	50	51	50	62	40	38	45	54	55	41	59	45	55	64	65	73	66	59	68	61	63	...	53.5
	Minimum....	36	32	31	26	28	23	22	24	34	37	30	24	27	31	22	20	24	27	33	36	38	40	30	33	41	45	33	41	39	45	...	33.0
Bridgeton.....	Maximum....	75	68	50	51	61	43	52	59	67	58	55	53	66	54	40	53	62	61	48	60	61	59	68	70	81	73	68	74	65	75	...	61.0
	Minimum....	39	49	30	24	42	28	22	34	35	44	27	28	35	32	25	24	44	36	39	39	40	42	33	38	42	54	41	50	36	48	...	36.5
Burlington.....	Maximum....	67	55	54	47	56	53	45	53	61	50	54	59	65	69	42	49	58	59	49	62	60	58	68	67	78	76	69	69	69	71	...	59.4
	Minimum....	47	45	33	38	34	27	25	41	35	34	28	29	36	32	26	24	45	34	38	39	40	42	34	35	44	58	43	52	42	48	...	37.7
Canoe Brook§.....	Maximum....	64	65	40	63	50	35	48	54	56	58	51	48	60	41	42	46	61	54	41	58	44	62	66	68	57	68	62	68	64	65	...	55.3
	Minimum....	36	28	30	19	29	25	20	29	32	35	26	19	31	30	20	17	31	24	39	37	38	39	30	29	36	38	29	44	33	44	...	30.6
Cape May*.....	Maximum....	59	66	40	47	55	42	46	58	58	55	49	53	52	43	41	48	60	49	44	56	63	52	59	57	58	70	54	77	60	65	...	51.5
	Minimum....	41	40	29	29	37	32	26	40	42	35	31	41	37	35	33	34	44	40	42	41	42	44	40	40	47	51	48	37	44	52	...	39.2
Charlotteburg.....	Maximum....	65	65	56	55	48	48	46	50	54	58	50	50	60	62	37	40	52	57	54	60	59	54	65	66	74	69	64	68	64	60	...	57.0
	Minimum....	37	25	23	21	29	16	18	28	30	33	22	18	33	23	19	11	30	23	35	35	35	25	31	38	48	27	40	40	40	40	...	28.9
Chatsworth.....	Maximum....	77	68	53	52	56	50	50	57	61	60	53	52	61	57	43	50	61	56	43	63	55	55	66	69	80	77	75	75	63	69	...	60.2
	Minimum....	39	34	30	19	36	28	20	30	28	39	28	35	36	31	19	17	44	31	38	38	39	41	29	27	34	56	31	40	30	47	...	33.1
Clayton.....	Maximum....	72	67	60	56	59	55	48	58	63	63	56	52	63	61	53	52	59	58	51	54	64	57	65	66	77	76	70	74	75	72	...	61.9
	Minimum....	42	45	33	27	43	31	27	36	38	45	33	30	30	30	22	22	44	42	32	38	38	41	30	30	42	53	39	52	36	38	...	36.2
Dover.....	Maximum....	66	62	43	48	49	33	47	51	57	51	51	47	59	49	39	43	55	52	46	59	47	56	64	66	74	65	65	69	63	63	...	54.3
	Minimum....	35	31	26	22	32	21	20	31	33	29	26	23	35	27	21	19	38	29	35	36	37	39	30	37	41	45	33	43	30	46	...	31.7
Elizabeth.....	Maximum....	66	66	54	55	57	51	51	59	63	60	58	55	62	47	44	48	57	57	46	58	52	59	68	68	78	75	68	75	71	68	...	59.9
	Minimum....	47	45	33	38	34	27	25	41	35	34	28	29	36	32	26	24	45	34	38	39	40	42	34	35	44	58	43	52	42	48	...	37.7
Flemington.....	Maximum....	67	56	53	58	50	50	54	62	62	50	51	63	59	42	45	60	58	50	64	64	61	64	65	73	73	63	71	65	67	...	56.8	
	Minimum....	37	32	30	22	33	24	23	33	30	39	29	24	34	30	23	21	37	30	38	37	38	41	30	32	41	54	34	47	39	48	...	33.7
Freehold.....	Maximum....	66	66	51	52	55	50	47	56	61	56	53	61	58	42	47	57	55	43	57	50	56	65	67	76	70	65	72	65	70	...	58.1	
	Minimum....	36	36	28	22	32	24	18	31	32	36	26	31	34	30	24	23	43	31	36	37	37	39	35	35	44	55	38	47	36	43	...	34.6
Hammononton.....	Maximum....	72	68	44	52	58	47	42	52	64	59	54	52	64	55	43	53	62	54	63	52	58	68	68	79	75	61	75	65	73	...	59.3	
	Minimum....	41	38	27	18	37	25	19	29	28	38	26	24	35	29	22	22	42	30	36	36	37	40	29	28	41	53	35	46	34	43	...	32.9
Hightstown.....	Maximum....	67	64	49	51	55	49	46	55	62	58	54	52	63	55	41	47	57	56	43	60	56	57	66	65	76	73	66	72	63	70	...	58.3
	Minimum....	37	34	29	23	33	25	21	32	32	39	28	25	36	31	23	22	41	29	37	39	38	40	32	34	43	56	37	49	37	47	...	34.4
Indiantown Mills.....	Maximum....	76	66	46	51	58	47	50	56	62	56	53	54	63	56	43	51	63	53	43	62	54	58	68	68	79	71	62	74	63	72	...	59.1
	Minimum....	38	34	29	19	37	26	21	29	28	39	28	21	35	31	21	20	45	32	38	39	40	42	30	27	38	56	36	56	37	46	...	33.9
Jersey City.....	Maximum....	74	68	56	58	58	51	50	61	64	57	54	50	62	56	44	47	59	57	44	56	54	58	66	66	80	74	66	77	66	...	59.8	
	Minimum....	39	34	30	23	34	27	22	34	33	35	25	29	37	32	23	21	43	30	37	38	39	40	32	32	45	58	36	50	35	46	...	34.7
Lakewood.....	Maximum....	69	64	49	51	57	50	48	54	64	62	57	54	63	58	42	48	58	57	50	63	60	60	67	68	78	75	63	75	66	70	...	60.0
	Minimum....	38	33	29	24	33	24	22	33	30	39	28	24	34	29	24	21	43	29	38	37	38	34	37	31	39	41	36	44	37	47	...	33.2
Lambertville.....	Maximum....	63	63	38	49	57	35	49	49	57	46	52	46	56	47	42	42	62	59	45	65	53	57	67	68	76	69	60	66	63	63	...	55.5
	Minimum....	36	29	25	16	32	19	18	30	26	28	24	19	28	25	17	11	38	26	35	30	39	37	27	27	32	47	26	42	33	41	...	28.7
Little Falls§.....	Maximum....	64	64	47	53	52	35	49	55	58	52	54	49	61	42	42	48	56	57	42	60	47	57	67	68	77	69	68	70	65	...	54.2	
	Minimum....	35	32	31	24	34	23	23	30	35	40	30	24	38	31	25	21	37	29	39	37	39	40	32	36	43	54	35	45	36	48	...	34.2
Long Branch*.....	Maximum....	60	66	36	51	55	37	49	56	59	52	53	54	59	44	43	46	59	47	43	50	46	55	61	61	78	71	60	74	63	66	...	55.1
	Minimum....	38	36	29	23	35	26	22	32	36	32	28	29	37	30	25	23	43	35	38	38	39	39	36	36	47	51	44	44	38	48	...	35.2
Long Valley§.....	Maximum....	64	63	34	48	57	34	46	52	58	50	56	46	59	41	40	44	56	55	41	56	47	62	65	67	76	68	58	70	65	64	...	56.9
	Minimum....	34	27	26	19	30	19	19	29	29	31	25	19	26	25	19	16	32	25	35													

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

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CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

MAY, 1943.

No. 5

GENERAL SUMMARY.

May averaged warmer than normal at practically all stations. the warmest weather was on the 7th and 8th with monthly maxima generally on the 8th. The coolest weather was also during the first week, with frost on two mornings in the northern counties and cranberry bogs. Monthly minima occurred on the 2d.

The month began rather dry following an April with less than normal precipitation. Copious rains fell, however, during each week after the first, and monthly totals were well above normal at nearly all stations. The State average for the month was 34% above normal. The amounts varied greatly in different localities ranging from 1.45 inches at Cape May to 8.37 inches at Moorestown.

Cloudiness was excessive and sunshine deficient. Conditions were reasonably satisfactory for agricultural operations, though corn planting was delayed somewhat by rain and considerable field corn remained to be planted at the close of the month. The commercial potato crop, planted in April, was up to a good stand though cultivation was delayed. Pastures and meadows were excellent.

There were no destructive storms in May.

TEMPERATURE.

The monthly mean temperature for the State, as computed from observations of 41 stations, was 61.7°, which was 1.3° above normal. The highest temperature was 93° at Canoe Brook on the 8th, and the lowest, 24°, at Belleplain on the 2d. The highest monthly mean temperature was 64.6° at Bridgeton and Clayton, and the lowest, 58.0°, at Barnegat City. The temperature departure from the normal for the year, 1943, to date, for the State is -0.2°.

PRECIPITATION.

The mean total precipitation for the State, as computed from observations of 58 stations, was 4.92 inches, which was 1.24 inches above normal. The greatest monthly precipitation was 8.37 inches, at Moorestown, and the least, 1.45 inches, at Cape May. The greatest amount of precipitation in any 24 consecutive hours was 2.67 inches at Long Valley on the 25-26th. The average for the Highlands was 5.12 inches; for the Red Sandstone Plain 5.76 inches; for the Southern Interior 4.55 inches; and for the Seacoast 2.29 inches.

The precipitation accumulated departure from the normal for the year 1943, to date, by sections, is: The Highlands, -1.72 inches; Red Sandstone Plain, -2.29 inches; Southern Interior, -2.71 inches; Sea Coast, -4.02 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 10, 11, 12, 15, 16, 17, 26, 27.

THUNDERSTORMS: 3, 7, 8, 10, 12, 18, 19, 20, 21, 26, 28.

HAIL: 20.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.44	16	29.67	3	16.0	38	nw.	3	80	72	79	52	185
Long Branch.....	30.45	16	29.64	3	12.3	42	nw.	1	79	70	62	52	183
Trenton.....	30.45	16	29.63	3	8.7	26	nw.	3	78	54	63	49	136

COMPARATIVE DATA FOR MAY.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	57.3	90	29	2.74	0	.....	.....	.....
1886.....	58.8	87	36	6.07	0	.....	.....	.....
1887.....	63.3	94	35	1.37	0	6	.....	.....
1888.....	58.6	90	26	4.92	0	16	.....	.....
1889.....	62.3	94	32	4.09	0	12	.....	.....
1890.....	60.7	87	33	4.24	0	12	.....	.....
1891.....	59.5	93	28	2.97	0	9	11	11
1892.....	60.1	90	30	5.04	0	13	8	10
1893.....	59.4	95	29	4.07	0	10	13	10
1894.....	61.4	93	30	7.72	0	13	11	11
1895.....	60.9	102	28	2.85	0	8	12	7
1896.....	55.3	98	29	3.21	0	10	10	9
1897.....	60.6	87	29	5.68	0	12	11	8
1898.....	58.5	93	29	7.00	0	18	8	15
1899.....	61.1	94	29	1.92	0	9	12	7
1900.....	60.9	98	26	4.71	0	10	13	11
1901.....	58.6	90	29	5.60	0	16	9	13
1902.....	60.3	95	29	2.04	0	7	15	5
1903.....	62.7	98	21	0.53	0	4	16	5
1904.....	62.8	97	31	2.60	0	8	17	5
1905.....	61.4	89	22	1.71	0	8	12	8
1906.....	61.0	94	24	4.21	0	10	16	7
1907.....	55.4	91	22	5.05	0	12	12	10
1908.....	61.6	95	29	7.10	0	13	9	12
1909.....	60.0	91	27	2.30	0	9	10	10
1910.....	60.0	94	27	2.54	0	12	10	11
1911.....	64.5	99	22	1.37	0	7	14	6
1912.....	62.0	92	31	4.09	0	11	11	9
1913.....	60.3	94	25	3.45	0	9	15	9
1914.....	63.1	98	30	2.93	0	10	14	7
1915.....	58.1	88	30	3.82	0	13	13	11
1916.....	61.1	90	33	3.48	0	12	12	8
1917.....	54.0	90	25	3.83	0	11	10	11
1918.....	64.6	93	31	4.94	0	12	14	7
1919.....	60.9	95	31	4.98	0	12	14	11
1920.....	57.4	89	26	3.00	0	10	15	8
1921.....	60.2	96	32	4.17	0	10	14	10
1922.....	63.0	90	23	3.84	0	8	18	7
1923.....	59.1	90	25	1.66	0	6	20	5
1924.....	56.8	87	25	5.69	0	17	12	12
1925.....	57.7	99	23	2.86	0	8	13	7
1926.....	59.1	90	26	2.58	0	9	18	4
1927.....	58.1	88	30	3.65	0	13	9	12
1928.....	58.0	93	27	2.23	0	12	12	10
1929.....	59.9	95	26	3.49	0	13	13	10
1930.....	62.7	98	31	2.75	0	9	17	7
1931.....	60.4	97	21	3.73	0	12	14	11
1932.....	60.5	94	29	2.98	0	8	16	7
1933.....	63.2	93	32	4.84	0	13	11	12
1934.....	62.3	98	28	4.63	0	11	17	8
1935.....	57.8	95	27	1.71	0	9	15	9
1936.....	63.1	97	28	2.78	0	7	20	4
1937.....	62.5	96	28	3.12	0	10	17	5
1938.....	59.2	89	26	3.52	0	12	10	12
1939.....	63.3	99	25	1.43	0	6	16	7
1940.....	59.7	92	28	6.29	0	15	8	14
1941.....	62.6	99	23	1.86	0	9	17	5
1942.....	64.3	97	25	2.41	0	7	14	8
1943.....	61.7	93	24	4.92	0	12	11	11
Period.....	60.4	102	21	3.68	0	11	13	9

Climatological Data for May, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, 0.1 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	70	59.6	+1.5	90	7	41	2	2.42	-0.63	0.72	21	0	13	3	14	14	s.	U. S. Weather Bureau.
Barneget City††	Ocean	36	23	58.0	.....	91	7	38	2	2.07	.....	0.76	21	0	9	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain	Cape May	49	49	63.2	+2.4	92	7	24	2	2.05	.....	0.33	12†	0	9	12	11	8	sw.	Mrs. Edward C. Hoffman
Belmar	Monmouth	19	1	.....	.....	.....	.....	.....	.....	2.87	-1.47	0.73	20	0	17	.....	.....	.....	.....	City Water Dept.
Berlindere	Warren	289	51	63.4	+2.6	90	8†	33	2	5.36	+1.82	1.90	26	0	11	15	6	10	.....	Miss C. S. Hixson.
Berlin	Camden	70	2	.....	.....	.....	.....	.....	.....	3.60	.....	1.10	25	0	8	16	10	5	.....	Samuel H. McCulley.
Bloomton	Morris	280	53	59.8	+1.0	85	8	30	2	5.08	+1.38	1.39	20	0	16	13	2	16	ne.	John Kline.
Bridgeton	Cumberland	30	60	64.6	+1.2	90	7†	33	2	4.67	+1.40	1.20	21	0	16	14	4	13	se.	Bennett K. Matlack
Brooklawn	Camden	30	2	.....	.....	.....	.....	.....	.....	4.80	.....	1.26	12	0	10	.....	.....	.....	.....	C. D. Scott.
Burlington	Burlington	12	57	63.8	+1.0	89	18	36	2	6.42	+2.91	1.63	12	0	13	14	8	9	sw.	Public Service E. & G. Co.
Canoe Brook	Essex	180	13	58.4	-0.3	93	8	26	2	7.02	+3.67	1.88	20	0	14	12	9	10	w.	N. J. Water Policy Comm.
Cape May†††	Cape May	17	55	61.1	+2.5	98	7	42	2	1.45	-1.54	0.28	21	0	12	7	10	14	s.	Naval Air Station.
Charlotteburg†††	Passaic	760	51	60.1	+2.4	88	8	29	23	5.11	+1.23	1.81	19-20	0	14	10	4	17	sw.	Newark Water Dept.
Chatham	Morris	185	39	.....	.....	.....	.....	.....	.....	7.10	+3.18	2.02	20	0	15	15	6	11	.....	Paul Molitor, Sr.
Chatsworth	Burlington	90	2	63.2	.....	92	7†	27	2	3.89	.....	0.94	21	0	8	10	12	9	se.	Alfred L. Stevenson.
Clayton	Gloucester	120	30	.....	.....	.....	.....	.....	.....	5.72	.....	2.14	26	0	13	21	5	5	sw.	Worthy Hitt.
Clinton	Hunterdon	300	0	64.6	+3.0	90	7	34	2	6.10	+3.06	1.60	21	0	10	8	3	20	s.	L. W. Klockner.
Culvers Lake††	Sussex	760	42	.....	.....	.....	.....	.....	.....	4.53	+0.70	2.37	26	0	11	.....	.....	.....	.....	L. S. Depue.
Dover	Morris	600	59	59.4	+0.7	87	8	34	2†	5.55	+1.92	1.60	26	0	14	5	9	17	.....	William C. Harris
Egg Harbor City	Atlantic	63	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chas. E. Hall.
Elizabeth	Union	34	64	.....	.....	91	8	.....	.....	7.58	+3.94	2.42	12	0	13	17	4	10	ne.	Union County Park Comm.
Flemington	Hunterdon	140	57	62.8	+1.4	87	7	34	2	5.37	+1.85	1.84	20	0	11	13	8	10	w.	Hiram E. Deats
Freehold	Monmouth	194	39	62.0	0.0	90	8	31	2	3.08	+0.64	0.85	20	0	9	10	16	5	se.	Moreau Plant Co.
Hammonton	Atlantic	95	37	62.3	-0.9	90	7†	31	2	6.38	+2.77	2.60	21	0	14	16	6	9	sw.	J. G. Wilson.
Hightstown	Mercer	110	50	62.2	+1.3	88	7†	33	2	5.40	+1.79	1.74	12	0	11	9	13	9	sw.	James R. Pickering.
Indian Mills††, 2 mi. W	Burlington	100	54	63.2	+1.4	91	7	31	2	3.24	-0.10	0.83	21	0	12	9	14	8	sw.	Edward Entwistle.
Jersey City††	Hudson	81	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jersey Journal.
Lakewood	Ocean	54	39	62.9	+2.5	93	8	31	2	3.50	-0.28	1.38	20	0	10	5	9	17	sw.	R. W. Holman.
Lambertville	Hunterdon	75	56	62.8	+1.8	89	8	34	2	7.28	+3.62	2.49	20	0	11	14	8	9	sw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex	480	42	59.0	+1.3	87	8	24	2	3.24	+1.00	0.59	21	0	10	5	7	19	s.	A. M. Depue.
Little Falls	Passaic	157	40	61.8	+1.5	89	8	31	2	5.22	+1.28	1.37	20	0	15	10	14	7	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	35	60.2	+1.7	92	8	35	2	2.67	-1.18	0.84	19	0	12	5	13	13	s.	Storm Warn. Display Sta.
Long Valley	Morris	660	13	58.8	.....	88	8	28	2†	6.35	+3.01	2.70	25-26	0	10	19	7	5	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	1	.....	.....	.....	.....	.....	.....	6.39	.....	1.55	20	0	14	12	8	11	sw.	David Griscorn.
Millville	Cumberland	60	2	.....	.....	.....	.....	.....	.....	3.36	.....	1.28	21	0	12	10	14	7	.....	Paul Ritchie.
Moorestown	Burlington	62	80	62.5	+1.2	88	7†	36	2†	8.37	+4.85	2.80	20	0	12	9	14	8	nw.	Japanese Beetle Laboratory
Morris Plains	Morris	500	2	.....	.....	.....	.....	.....	.....	5.34	.....	1.37	26	0	11	20	2	9	.....	James C. Long.
Newark	Essex	10	89	61.9	+0.7	92	8	35	2	6.16	+2.29	2.55	11-12	0	14	5	11	15	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	89	62.8	+2.3	87	8	32	2	5.43	+1.77	1.70	12	0	12	11	12	8	se.	N. J. Experiment Station
New Milford††	Bergen	12	25	.....	.....	.....	.....	.....	.....	4.20	+0.76	1.48	12	0	13	.....	.....	.....	.....	Hackensack Water Co.
Newton	Sussex	769	60	59.9	+0.4	86	8	31	1†	5.73	+2.12	2.46	26	0	17	5	12	14	sw.	Irving J. Kern.
Orange	Essex	140	3	.....	.....	.....	.....	.....	.....	5.60	.....	1.97	12	0	17	.....	.....	.....	.....	H. J. Finley.
Paterson	Passaic	95	72	60.8	-0.7	90	8	33	2	4.60	+0.83	1.20	12	0	14	7	14	10	w	J. W. Cook.
Pemberton	Burlington	55	14	64.2	+1.2	90	8	32	2	5.42	+2.30	1.75	20	0	13	10	5	16	w	Charles S. Beckwith
Phillipsburg	Warren	182	60	63.0	+1.9	90	8†	32	2	6.19	+2.88	1.82	26	0	12	14	9	8	.....	Town Engineer.
Plainfield	Union	120	55	61.9	+1.7	90	8	31	2	6.38	+2.65	2.64	12	0	11	5	14	12	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	1	.....	.....	.....	.....	.....	.....	5.04	.....	2.04	20	0	8	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††	Atlantic	8	45	60.6	+1.6	92	7	27	2	3.59	+0.41	0.96	21-22	0	17	13	9	9	s.	N. J. Water Policy Comm.
Rahway	Union	20	3	.....	.....	.....	.....	.....	.....	5.93	.....	1.32	12	0	9	11	12	8	se.	Louis Fontenelli.
Ridgefield	Bergen	80	26	61.2	+1.3	91	8	32	2	5.82	+2.35	2.01	12	0	11	7	15	9	s.	George P. Kirsten.
Runyon††	Middlesex	18	20	63.7	+4.2	90	8	25	2	3.91	+0.52	1.51	12	0	7	17	9	5	w	N. J. Water Policy Comm.
Sandy Hook††	Monmouth	15	45	61.6	+3.2	85	8	40	1	2.86	-0.86	0.78	19	0	11	20	7	4	s.	U. S. Coast Guard.
Somerville, 4 miles N.	Somerset	385	60	62.2	+1.7	88	8	35	2	5.84	+2.30	2.06	26	0	11	12	6	13	w	Richard H. Rogers.
Sussex	Sussex	450	48	60.4	+0.7	87	8	29	2	4.68	+1.25	1.85	26	0	17	8	7	16	w.	Marshall Hunt.
Toms River	Ocean	33	22	.....	.....	.....	.....	.....	.....	4.17	-0.18	1.00	8	0	14	.....	.....	.....	.....	Robt. F. Snyder.
Trenton	Mercer	56	71	62.6	+1.5	87	7	39	2	4.28	+1.20	1.33	11-12	0	13	4	13	14	s.	U. S. Weather Bureau.
Trenton No. 2	Mercer	105	13	63.0	.....	89	8	37	2	4.61	.....	1.56	12	0	13	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton	Ocean	23	50	61.4	+1.5	92	7	35	2	2.52	-0.92	0.88	21	0	13	12	3	16	e.	John H. Brown.
Vineland	Cumberland	110	63	.....	.....	.....	.....	.....	.....	4.31	+1.11	1.10	21	0	12	13	7	11	e.	Robert Jones.
Westfield	Union	145	3	.....	.....	.....	.....	.....	.....	6.98	.....	1.95	25-26	0	12	12	6	13	sw.	Town Engineer.
Woodcliff Lake††	Bergen	103	25	.....	.....	.....	.....	.....	.....	4.53	+1.07	1.32	12	0	13	.....	.....	.....	.....	Hackensack Water Co.
Woodstown	Salem	16	8	.....	.....	.....	.....	.....	.....	6.40	.....	2.30	21	0	7	17	7	7	s.	Geo. S. Keen
New York, N. Y.	.....	10	73	61.4	+0.8	85	8	39	2	4.71	+1.47	1.77	11-12	0	16	6	11	14	n.	U. S. Weather Bureau
Philadelphia, Pa.	.....	10	73	63.3	+1.2	89	8	37	2	5.63	+2.37	1.58	12	0	13	2	13	16	sw.	U. S. Weather Bureau
For the State	.....	.....	.....	61.7	+1.3	93	8	24	2	4.92	+1.24	2.70	25-26	0	12	11	9	11	sw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. †† Received too late to be included in the means. T. precipitation less than 0.01 inch rain or melted snow

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing: for example, b represents 2 days, etc

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton is Port Jervis, N. Y.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia-8-16-43-925

Daily Precipitation for May, 1943

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast		.05	.20				.04	T.		.10	.01	.22	.01	.42		T.						.72					.17		.42		.05	.01	2.42
Barnegat City ¹	Coast		T.	.07				.09	.10		T.	T.	T.		.18						.06	.21	.76					.13			.47		2.07	
Belleplain	Tuckahoe			.25	.13						.15		.33	.09	.25							.27						.33			.25	T.	2.05	
Belmar	Coast			.03	.12			.02		.01	.01	.03	.04	.64	.42	T.	T.				.18	.73	.24	.01	T.	T.	.01	.35		.02		.01	2.87	
Belvidere	Delaware										.24	.12	.24	.56						.05	.68	1.30	.19	.03		T.	T.	1.90		.05		T.	5.36	
Berlin	Mullica	.05			.10							.35	.90		.10						.80					1.10			.20			T.	3.60	
Boonton ³	Passaic	.29		.09	.03			.01		.21		.36	.29	.38	.02				.01		.43	1.39	T.	.42			1.40	.40	.64		.11		5.08	
Bridgeton	Delaware	.36		.23					.55	.04	.03	.05	.52	.03	.22		.03						1.20	.03				.84		.40	.04		.10	4.67
Brooklawn	do			.12						T.		T.	1.26	.22	.28	T.					T.	.96	.65	.15				.97		.09	T.	.10	T.	4.80
Burlington	Delaware			.12								.16	1.38	.25	.35						.03	1.50	.50					1.26	.04	.04		.05	.74	6.42
Canoe Brook ³	Passaic	.21		.06	.03				.05			.29	.65	1.18	.12						.77	1.88		.29				.44	1.00		.05		7.02	
Cape May ²	Coast		.10	.10				.01	.02	T.	.09	T.	.16	T.	.25	.01						.28	T.					.11		.06		.26	T.	1.45
Charlotteburg	Passaic			.16				.06			.38	.17	.18	.50	.06					.14	.79	1.02	.12	.10				1.28	.15				5.11	
Chatham ³	do	.22		.08	.06			T.		.07	T.	.33	.61	1.04	.11			T.			.95	2.02	.02	.29				.31	.95		.04		7.10	
Chatsworth	Coast			.19						.06			.62	T.	.28							.64	.94					.61				.55	3.89	
Clayton	Delaware	.22		.18					.25			.17		.26								.53	1.60					1.10	.57		.22		6.10	
Clinton	do			.07			T.		.25		.03	.46	.74	.05		.14					.63	1.00	.18	T.			.01	2.14			.02		5.72	
Culvers Lake	do			.07				.10	.21		.02	.15	.40		T.		T.	T.			.50	.36	.30	.05				2.37					4.53	
Dover	Passaic			.10			.04			.28		.55	.04	.55	.06						.90	.99	.28	.03				.01	1.60	.12			5.55	
Egg Harbor City ²	Mullica																																7.58	
Elizabeth	Coast	T.		.07			T.	T.		.03	.01	.45	2.42		.16						.57	1.62	.26	.01				.87	.80		.31		T.	5.37
Flemington	Raritan			.12					.07	T.		.22	1.28		.13						T.	1.84	.25	T.		.02	1.39		.02		.25	T.	.03	8.08
Freehold	do			.16								.08	.75		.35							.85	.21	.06				.55		.07			6.38	
Hammononton	Mullica		.30	.19				T.	.03		.27		.58		.28						.08	.79	2.60		.14			.78		.07		.15	.12	5.40
Hightstown	Raritan			.12				T.	.02	T.	.02	T.	.06	1.74	.24						.31	1.52	.20	.08			T.	1.07		.04				3.24
Indian Mills	Mullica			.20					.11	T.	.01	T.	.49	.25							T.	.49	.83	.07				T.	.65	.03		.04	.07	3.50
Jersey City	Coast										.02	.02	.08	.60		.43						1.38	.37	.06				.32					7.28	
Lakewood	Metedeconk		.22																														3.24	
Lambertville	Delaware	.20		.10				.05	.05	T.	.09	2.05	T.								.70	2.49	.20	T.				1.30		.05		T.	5.22	
Layton	do			.33					.32		.12	.12	.45							.14	.54	.58	.59	.05				.41	.49		.08		2.67	
Little Falls ³	Passaic	.28		.09	.06				.15	.01	.30	.41	.85	.04								1.37		.23									6.35	
Long Branch ²	Coast		.02	.05				.01		T.	.06	.39		.31						T.	.84	.65	.13	.02		.01	.18		T.				6.39	
Long Valley ³	Raritan	.16							.42			.44	.22	.45							.57	1.10	.32				.28	2.42					3.36	
Marlton	Delaware			.37				.03		.02	.02	1.35	.21	.35							.07	1.55	.66	.18			1.50	T.	.04		.04		8.37	
Millville ²	Maurice	.10	.09			.02	.35	.04		.02		.39		.20								1.28						.67		.17		.03		5.42
Moorestown ³	Delaware		.10					T.	T.	T.	T.	.65	1.91	.30	.04						2.80	.62	.04	T.				.65	.81	T.	.03		.42	6.19
Morris Plains	Passaic	.07	.17				T.			.25		.37	.76	.01							.75	1.31	.23	.05			T.	1.37					6.16	
Newark ¹	Coast		.03	.06			T.	T.	T.		.33	.09	2.54	.03	.10				T.		.41	1.16	.38	.24	T.			.01	.76		.02		T.	5.43
New Brunswick	Raritan	.03	T.	.10		T.		T.		.04		.13	1.70	T.	.43							.39	1.55	.13	.03			.87	.03	T.			4.20	
New Milford ²	Hackensack		.01	.17				.19			.16		.18	.02	.04						.23	1.03	.02	.15				.04	.66				5.73	
Newton	Delaware	.04	T.	.21			.06	.20			.10	.18	.46	.01	T.		.01				.02	.81	.75	.31	.05	.01			2.46		.05		5.60	
Orange ²	Passaic		.01	.09			.03		.07		.24	.05	1.97	.04	.05						*	1.55	.29	.26	.02		.05	.86		.02			4.60	
Paterson ²	Passaic		T.	.13			T.	T.	.18		.26	.02	1.20	T.	.02						.43	.96	.29	.22	.01		.01	.83		.04			5.42	
Pemberton	Delaware		.20						.03	.03	.02	.82	.07	.35							T.	1.75	.34	.02	.35			.80		.08		T.	.91	4.60
Phillipsburg	do		T.	.13				T.		.42		.59	.12	.74	T.	.04		T.	T.		.85	.77	.52	.14	T.		T.	1.82			.05		6.19	
Plainfield	Raritan			.07				T.		.02	T.	T.	.49	2.64	T.	.10					.26	.87	.22	.01				T.	1.69		.01		T.	6.38
Plainsboro	Raritan			.10								.09	1.31	.04							.11	2.04	.13	T.				1.22				T.	5.04	
Pleasantville ³	Coast	.13		.12	.30				.29		.03	.35	.05	.27	.12	.25	.01					.89	.07					.09	.12		.45		.05	3.59
Rahway ³	Rahway	T.				T.			T.		.33	1.00	1.32		.20	T.					.56	1.20	.20					1.04		.08	T.		5.93	
Ridgefield ²	Hackensack			.10			T.		.03		.02	.26	2.01		.12						.57	1.55	.25	T.			T.	.63		.28			5.92	
Runyon	Coast		.07									.15	.51		.44						.31	1.46	.12					.03					3.94	
Sandy Hook ¹	Coast		.01	.12			T.		T.		.18	.04	.66	.11	.25		T.	T.			.78	.28	.07	T.			T.	.36		T.		T.	2.86	
Somerville	Raritan		.10					.04				.42	1.40		.12						.30	1.05	.25	.05			.05	2.06				T.	5.84	
Sussex	Hudson	.02		.22				.02	.22	.01	.06	.15	.32		.02						.03	.74												

Daily Temperatures for May, 1943

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum....	57	57	62	58	71	71	90	67	68	56	57	63	70	60	57	62	66	66	67	77	60	62	62	64	66	71	77	71	76	68	69	66.1
	Minimum....	43	41	49	47	43	51	60	55	52	50	49	56	54	50	47	53	55	58	58	53	52	53	48	55	58	60	62	60	55	59	59	53.1
Barnegat City†.....	Maximum....	54	60	59	57	69	71	91	67	66	53	58	64	64	59	60	67	71	66	68	54	58	63	64	66	68	82	72	72	68	67	65.0	
	Minimum....	39	38	47	47	44	50	49	53	51	48	48	54	52	46	48	52	54	55	54	51	52	48	49	50	57	53	60	59	55	58	59	51.0
Belleplain.....	Maximum....	66	69	69	71	83	92	89	81	63	.....	73	88	74	63	74	82	86	85	85	69	70	.....	71	79	80	83	81	75	73	78	76.9 ^a	
	Minimum....	24	45	44	31	45	59	59	50	48	.....	48	50	47	36	50	59	61	59	62	50	37	.....	44	53	60	55	52	49	50	57	49.4 ^c	
Belvidere.....	Maximum....	62	64	71	59	74	85	84	90	78	71	61	73	79	73	72	.....	87	90	85	76	72	62	74	75	73	78	80	78	80	76	85	75.6 ^a
	Minimum....	38	33	49	46	38	46	54	59	50	54	50	49	50	48	43	.....	63	64	64	61	53	52	43	50	58	63	53	50	54	56	51.2 ^a	
Boonton§§.....	Maximum....	48	59	69	53	70	77	82	85	74	61	53	67	78	70	69	65	82	84	83	69	54	63	73	72	72	71	77	74	75	74	80	70.4
	Minimum....	39	30	42	46	37	44	51	56	50	51	47	47	49	49	40	47	52	61	63	61	53	51	38	44	50	58	59	51	54	48	56	49.2
Bridgeton.....	Maximum....	73	65	80	65	73	86	90	90	79	72	72	70	80	75	68	78	85	90	89	83	69	65	71	71	76	79	81	78	78	70	80	76.7
	Minimum....	42	33	45	46	38	48	60	58	60	53	53	59	52	48	43	51	60	61	62	64	53	50	44	49	55	64	55	56	54	56	60	52.6
Burlington.....	Maximum....	60	62	75	70	72	84	88	85	81	65	65	70	78	70	70	71	83	89	80	70	66	61	69	75	77	80	80	80	80	77	81	74.5
	Minimum....	39	36	49	48	38	49	54	52	54	56	51	61	54	54	47	56	64	58	64	54	47	53	51	50	59	65	60	55	57	55	58	53.2
Canoe Brook§§.....	Maximum....	53	63	73	54	68	72	83	93	72	56	51	66	75	66	67	80	84	83	66	54	68	73	68	71	72	73	73	79	80	75	70.5	
	Minimum....	40	26	43	47	30	38	49	56	48	48	47	47	44	48	37	45	50	48	60	53	51	38	47	50	60	50	47	49	44	54	46.2	
Cape May*.....	Maximum....	56	55	65	59	68	69	88	79	67	66	64	63	70	60	58	63	66	67	75	80	72	65	63	63	65	73	79	72	71	71	67.8	
	Minimum....	44	42	51	52	48	53	60	57	53	52	51	56	56	52	49	54	56	57	58	54	54	53	49	55	58	59	63	61	60	60	60	54.4
Charlotteburg.....	Maximum....	75	69	71	65	70	78	85	88	79	74	60	61	75	73	70	72	82	85	83	75	69	62	74	73	71	69	88	76	75	73	80	74.2
	Minimum....	34	32	38	40	38	37	50	58	46	46	47	45	50	46	31	47	55	59	60	58	47	46	29	45	50	60	49	45	48	40	50	46.0
Chatsworth.....	Maximum....	66	63	77	65	71	86	92	85	67	56	77	80	77	68	75	77	91	90	76	66	63	74	72	78	77	80	80	76	76	78	75.8	
	Minimum....	43	27	45	46	36	45	55	58	56	52	48	51	50	56	39	53	61	62	63	59	52	52	38	45	55	64	57	50	48	48	57	50.6
Clayton.....	Maximum....	72	61	78	70	72	74	90	89	88	77	72	77	78	76	69	77	84	86	86	85	72	65	72	71	76	77	80	75	74	77	74	76.6
	Minimum....	44	34	46	46	48	46	39	58	56	54	52	55	52	49	45	54	63	64	64	64	53	53	44	48	57	65	54	52	56	59	58	52.6
Dover.....	Maximum....	54	60	70	54	70	78	83	87	75	65	51	68	75	67	60	64	81	85	77	75	56	62	70	70	71	74	75	74	75	74	77	70.1
	Minimum....	37	34	42	44	34	44	54	60	49	49	46	46	50	47	39	51	53	64	63	55	49	47	38	48	54	60	53	51	47	48	58	48.8
Elizabeth.....	Maximum....	67	67	74	68	77	71	89	91	84	69	61	67	80	65	68	68	86	90	85	75	50	47	78	69	72	72	82	70	81	80	83	73.7
	Minimum....	40	34	45	47	36	46	52	58	50	54	50	49	51	47	45	52	60	61	63	62	52	52	42	50	56	64	55	53	52	52	59	51.3
Flemington.....	Maximum....	69	62	75	65	68	83	89	90	74	65	56	70	79	77	65	70	86	89	83	70	60	62	74	70	73	76	82	76	77	75	77	73.8
	Minimum....	39	31	41	46	48	47	50	61	51	51	48	47	47	47	43	40	58	62	63	53	49	50	43	49	54	61	57	52	53	51	56	50.2
Freehold.....	Maximum....	65	63	58	75	72	78	90	90	78	73	63	69	78	68	68	78	81	88	86	78	65	67	74	73	77	78	78	77	73	78	74	74.7
	Minimum....	41	31	38	43	33	45	68	62	49	51	47	55	48	51	38	50	59	61	61	57	45	50	39	45	54	62	55	50	50	52	56	49.9
Hightstown.....	Maximum....	67	61	74	65	71	82	88	88	76	64	58	70	75	73	63	73	84	85	84	71	62	62	73	72	75	77	78	75	76	75	80	73.5
	Minimum....	40	33	43	47	36	48	50	60	52	53	48	48	51	47	44	51	61	63	64	58	51	51	42	48	56	63	55	52	52	51	58	50.8
Indian Mills.....	Maximum....	64	62	76	62	72	85	91	90	80	70	56	68	80	70	69	77	87	89	88	79	60	66	75	72	78	77	82	78	77	75	80	75.3
	Minimum....	44	31	45	46	32	43	60	59	55	53	50	52	50	47	40	53	62	64	65	60	52	51	38	45	57	64	56	49	51	51	58	51.1
Jersey City.....	Maximum....	65	65	79	68	74	83	91	93	84	63	56	72	80	76	66	70	85	91	85	70	59	63	74	71	75	75	82	79	78	75	78	75.0
	Minimum....	42	31	45	48	37	47	51	61	55	51	48	49	50	49	40	52	60	64	63	51	51	51	40	48	56	62	56	57	51	50	59	50.8
Lakewood.....	Maximum....	70	64	76	65	71	84	87	89	79	73	62	70	76	75	65	74	85	86	84	80	63	62	73	74	76	76	80	77	77	72	79	75.0
	Minimum....	40	34	44	46	36	44	51	56	50	55	51	50	48	41	43	53	62	64	63	60	53	51	43	48	56	64	53	52	50	50	57	50.6
Lambertville.....	Maximum....	62	62	70	55	70	80	84	87	77	67	54	67	75	69	70	65	83	86	76	70	62	60	72	72	71	75	77	71	74	73	82	71.5
	Minimum....	35	24	43	43	28	38	48	56	47	51	50	48	51	40	31	51	50	60	62	59	51	49	38	44	51	53	49	45	53	41	50	46.4
Little Fall-§§.....	Maximum....	53	63	73	60	74	79	87	89	77	62	54	68	80	71	68	71	85	88	83	69	58	72	76	73	74	80	77	78	77	82	73.4	
	Minimum....	39	31	45	47	35	45	52	61	50	53	49	47	47	50	40	52	55	65	63	58	53	51	40	50	52	60	55	50	55	48	56	50.1
Long Branch*.....	Maximum....	52	62	77	55	73	65	91	92	68	59	51	68	75	61	65	79	85	77	64	54	60	69	68	69	74	80	76	77	72	75	69.5	
	Minimum....	37	35	45	48	40	46	50	55	50	48	47	52	49	46	49	56	65	58	54	50	47	43	51	56	59	59	54	55	53	57	50.9	
Long Valley§§.....	Maximum....	50	62	70	56	71	82	85	88	74	60	52	71	77	70	68	78	82	85	80	67	55	62	73	71	72	72	77	74	76	74	78	71.4
	Minimum....	36	28	40	43	28	37	47	57	47	48	45	45	49	45	37	48	52	57	60	62	49	48	33	45	49	60	49	45	46	43	55	46.2
Moorestown*.....	Maximum....	56	64	77	60	71	85	88	88	78	70	55	70	78	65	65	75	83	85	85	70	58	64	70	70	75	77	80	75	75	73	78	73.0

1.05
INJ

CLIMATOLOGICAL DATA

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NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

JUNE, 1943.

No. 6

GENERAL SUMMARY.

This was the hottest June of record in New Jersey, with a State average temperature of 74.2°, compared with a previous high average of 73.6° in 1925. The temperature reached 100° or higher at seven stations. The readings of 102° at Newark and at Canoe Brook have been exceeded a few times in previous years, but the heat wave which extended from the 13th to the 28th is thought to surpass any similar June heat period in New Jersey since records were begun in 1885. Humidity was high much of the time, and numerous heat prostrations occurred. June average temperature this year was slightly higher than the normal for July, and considerably higher than the August normal.

Rainfall was slightly below normal, but was generally adequate for agricultural purposes. It was slightly greater in the northern counties than elsewhere, and least in the coastal areas. Much of the rain fell in the form of local thundershowers, heavy in places. Rather general rains occurred on the 17-18th, and heavy amounts fell at that time in some localities. As expected with a heat wave, sunshine percentage was high. Crops thrived except in a few drier localities, mainly in southern counties. Excellent yields of early hay were harvested without serious damage by rain. Thunderstorms were numerous, with some damage by lightning, but damage by wind or hail was light.

TEMPERATURE.

The monthly mean temperature for the State, as computed from observations of 41 stations, was 74.2°, which was 5.2° above normal. The highest temperature was 102° at two stations on the 26th, and the lowest, 43°, at Charlotteburg on the 12th. The highest monthly mean temperature was 77.5° at Burlington, and the lowest, 70.1°, at Dover.

The temperature departure from the normal for the year, 1943, to date, for the State is +1.0°.

PRECIPITATION.

The mean total precipitation for the State, as computed from observations of 60 stations, was 3.24 inches, which was 0.59 inch below normal. The greatest monthly precipitation was 5.69 inches, at Belvidere, and the least, 1.46 inches, at Belmar. The greatest amount of precipitation in any 24 consecutive hours was 2.74 inches at Trenton No. 2 on the 17th.

The average for the Highlands was 3.84 inches; for the Red Sandstone Plain 3.31 inches; for the Southern Interior 3.27 inches; and for the Seacoast 2.01 inches.

The precipitation accumulated departure from the normal for the year 1943, to date, by sections, is: The Highlands, -2.12 inches; Red Sandstone Plain, -2.83 inches; Southern Interior, -3.15 inches; Sea Coast, -5.44 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 2, 11, 12, 17, 22, 24.

THUNDERSTORMS: 1, 2, 7, 9, 13, 14, 17, 18, 21, 22, 23, 26, 27, 29.

HAIL: 17, 23.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.21	24	29.61	2	14.6	32	ne.	14	80	69	78	75	5
Long Branch.....	30.19	24	29.57	2	12.2	34	w.	26	78	58	68	73	10
Trenton.....	30.20	24	29.58	2	6.9	29	nw.	29	77	55	66	68	10

COMPARATIVE DATA FOR JUNE.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	68.7	97	39	1.79	0	10	11	5
1886.....	67.1	91	41	3.38	0	10	11	7
1887.....	68.2	97	42	6.77	0	6	10	8
1888.....	70.8	99	39	2.59	0	10	11	8
1889.....	69.9	91	40	3.73	0	10	11	7
1890.....	70.7	95	42	3.59	0	11	13	5
1891.....	69.7	102	38	2.92	0	5	14	7
1892.....	72.4	98	44	3.85	0	11	10	8
1893.....	69.7	103	40	2.95	0	8	10	11
1894.....	70.6	102	35	2.28	0	9	14	11
1895.....	71.7	103	39	3.24	0	10	11	11
1896.....	68.1	96	37	5.46	0	10	12	10
1897.....	66.1	95	35	3.38	0	10	10	13
1898.....	70.1	100	38	2.10	0	8	14	12
1899.....	72.3	103	38	2.50	0	7	15	10
1900.....	70.4	97	39	3.08	0	8	12	12
1901.....	70.0	103	35	1.57	0	5	18	8
1902.....	67.5	99	37	6.57	0	11	14	11
1903.....	64.0	92	37	7.68	0	15	6	10
1904.....	68.6	100	34	3.13	0	12	13	10
1905.....	68.3	96	35	3.43	0	10	11	12
1906.....	70.4	98	38	4.48	0	12	11	11
1907.....	64.7	96	31	4.41	0	10	12	10
1908.....	69.9	99	35	2.32	0	4	16	12
1909.....	70.0	99	36	3.26	0	12	9	10
1910.....	66.9	95	34	5.17	0	13	9	10
1911.....	68.9	97	40	5.36	0	14	9	12
1912.....	68.0	98	33	1.94	0	8	9	12
1913.....	69.1	98	31	1.80	0	5	19	8
1914.....	68.5	98	35	2.66	0	7	14	9
1915.....	67.0	95	37	3.12	0	11	13	10
1916.....	64.7	87	36	4.20	0	13	10	9
1917.....	68.9	95	40	4.27	0	12	13	10
1918.....	66.3	96	32	3.43	0	8	15	9
1919.....	69.5	99	38	3.16	0	8	16	7
1920.....	68.4	98	38	6.18	0	12	13	9
1921.....	70.4	100	33	3.23	0	8	18	7
1922.....	71.1	95	39	6.31	0	15	12	9
1923.....	72.5	106	37	2.08	0	7	18	8
1924.....	66.8	95	30	4.20	0	13	11	11
1925.....	73.6	103	36	3.10	0	9	17	9
1926.....	64.9	97	31	2.60	0	11	12	9
1927.....	65.4	97	31	3.16	0	10	15	9
1928.....	66.6	98	36	6.75	0	15	10	9
1929.....	69.5	98	33	3.11	0	9	15	9
1930.....	70.8	98	30	4.17	0	8	16	8
1931.....	69.3	101	40	4.84	0	10	16	7
1932.....	69.3	98	30	3.68	0	10	13	8
1933.....	71.0	105	32	2.79	0	9	17	8
1934.....	72.6	103	38	3.68	0	7	16	9
1935.....	68.9	96	38	4.64	0	13	14	8
1936.....	69.1	99	38	4.93	0	12	12	7
1937.....	70.5	99	41	4.66	0	13	11	9
1938.....	67.2	96	29	7.79	0	13	11	9
1939.....	70.8	99	35	3.55	0	10	12	9
1940.....	68.6	95	32	3.28	0	10	12	9
1941.....	69.4	98	37	5.09	0	9	15	7
1942.....	69.8	96	41	3.11	0	11	11	9
1943.....	74.2	102	43	3.24	0	9	17	6
Period.....	69.0	106	29	3.83	0	10	13	10

Climatological Data for June, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	70	73.4	+6.8	96	4	57	10	2.75	-0.29	0.99	29-30	0	10	9	15	6	s.	U. S. Weather Bureau.
Barnegat City.....	Ocean.....	36	23	72.2	.....	95	4	57	30	1.90	.....	1.06	29	0	6	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	49	74.6	+5.3	101	21	48	10	2.94	-0.50	1.26	9	0	7	22	5	3	a.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	1	.....	.....	.....	.....	.....	.....	1.46	.....	0.44	29	0	12	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	51	75.2	+5.7	100	25	53	6†	5.69	+1.69	1.43	26	0	6	18	6	6	.....	Miss C. S. Hixson.
Berlin.....	Camden.....	70	2	.....	.....	.....	.....	.....	.....	1.40	.....	0.40	13	0	6	20	8	2	.....	Samuel H. McCulley.
Boonton.....	Morris.....	280	53	72.2	+4.7	96	25	50	6	2.62	-1.34	0.89	8	0	11	20	1	9	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	60	76.9	+4.8	97	26†	54	10	2.54	-0.38	1.03	9	0	8	23	4	3	sw.	Bennett K. Matlack
Brooklawn.....	Camden.....	30	2	.....	.....	.....	.....	.....	.....	4.25	.....	1.39	18	0	7	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	57	77.5	+6.4	96	22	57	10	2.18	-1.51	1.37	18	0	7	24	5	1	sw.	Public Service E. & G. Co.
Cause Brook.....	Essex.....	180	13	72.9	+5.6	102	26	45	6	3.35	-1.15	0.96	8	0	12	21	1	8	se.	N. J. Water Policy Comm.
Cape May.....	Cape May.....	17	55	73.6	+5.9	91	3†	57	10	2.08	-0.96	0.73	29	0	10	11	9	10	sw.	Naval Air Station.
Charlotteburg.....	Passaic.....	760	51	71.0	+5.4	98	26	43	12	3.37	-1.09	0.97	7	0	10	17	1	12	w.	Newark Water Dept.
Chatham.....	Morris.....	185	39	.....	.....	.....	.....	.....	.....	3.04	-0.92	0.90	2	0	11	22	4	4	.....	Paul Molitor, Sr.
Chatsworth.....	Burlington.....	90	2	75.3	.....	101	26	51	10	3.18	.....	1.14	18	0	7	15	12	3	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	30	75.8	+6.2	96	26	54	10	3.65	-0.09	1.65	18	0	6	13	6	11	a.	Worthy Hitt.
Clinton.....	Hunterdon.....	300	0	.....	.....	.....	.....	.....	.....	4.48	.....	1.09	27	0	9	25	3	2	sw.	L. W. Klockner.
Culvers Lake.....	Sussex.....	760	42	.....	.....	.....	.....	.....	.....	3.15	-1.29	0.81	18	0	6	.....	.....	.....	.....	L. S. Depue.
Dover.....	Morris.....	600	59	70.1	+3.1	94	25†	50	4†	3.69	-0.74	1.05	7	0	9	8	12	10	.....	William C. Harris
Egg Harbor City.....	Atlantic.....	63	21	.....	.....	.....	.....	.....	.....	3.66	+0.15	0.99	18	0	6	.....	.....	.....	.....	Chas. E. Hall.
Elizabeth.....	Union.....	34	64	.....	.....	100	25†	53	10	2.94	-0.66	1.22	1-2	0	9	20	4	6	w.	Union County Park Comm.
Freehold.....	Essex.....	140	57	74.9	+5.0	99	25	52	10	5.44	+1.83	2.69	27	0	8	20	3	7	w.	Hiram E. Deats
Freehold.....	Monmouth.....	194	39	74.8	+4.1	97	26	51	11	4.26	-0.51	2.22	18	0	9	21	5	4	w.	Morcan Plant Co.
Hammononton.....	Atlantic.....	95	37	75.4	+4.0	99	26	49	10	3.55	-0.21	1.45	18	0	11	19	4	7	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	110	50	74.4	+5.2	96	26	51	10	4.02	-0.26	1.76	17-18	0	8	18	7	5	sw.	James R. Pickering.
Indian Mills, 2 mi. W.	Burlington.....	100	54	75.5	+5.5	100	21	48	10	2.88	-1.05	1.41	18	0	9	15	11	4	sw.	Edward Entwistle.
Jersey City.....	Hudson.....	81	45	.....	.....	.....	.....	.....	.....	3.45	-0.33	1.01	10	0	7	22	2	6	nw.	Jersey Journal.
Lakewood.....	Ocean.....	54	39	75.5	+6.7	98	26†	49	10	2.75	-1.26	1.12	18	0	7	17	5	8	sw.	R. W. Hohman.
Lambertville.....	Hunterdon.....	75	56	74.4	+4.9	96	26	52	12	3.08	-0.68	0.84	18	0	6	20	5	5	sw.	Mabel Wollaston.
Layton, 3 miles NW.	Sussex.....	480	42	71.8	+5.7	98	25	45	12	3.34	-1.19	0.67	1	0	9	15	3	12	s.	A. M. Deque.
Little Falls.....	Passaic.....	157	40	73.2	+4.0	99	25	52	10	2.69	-1.33	1.05	8	0	13	16	9	5	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	35	74.4	+6.7	98	26	51	10	3.66	-0.20	1.74	17-18	0	10	15	7	8	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	13	71.0	.....	97	26	47	12†	3.89	-0.62	0.90	2†	0	10	21	5	4	w.	Arthur Barkman.
Marlton, 1 mile W.	Burlington.....	90	1	.....	.....	.....	.....	.....	.....	4.08	.....	1.41	29	0	9	19	7	4	sw.	David Grissom.
Millville.....	Cumberland.....	60	2	.....	.....	.....	.....	.....	.....	1.74	.....	0.69	9	0	6	20	3	7	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	80	75.2	+6.1	95	25†	54	9†	3.28	-0.50	1.23	30	0	9	18	7	5	nw.	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	2	.....	.....	.....	.....	.....	.....	2.34	.....	0.78	7	0	9	20	2	8	.....	James C. Long.
Newark.....	Essex.....	10	89	75.4	+5.8	102	26	55	10	3.12	-1.40	1.14	1	0	6	6	13	11	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	89	74.0	+4.7	96	26	53	10	4.14	+0.56	1.25	29	0	8	13	11	6	se.	N. J. Experiment Station
New Milford.....	Bergen.....	12	25	.....	.....	.....	.....	.....	.....	2.97	-1.05	0.93	1	0	12	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	60	71.2	+3.3	96	25	48	6†	5.37	+0.89	1.43	18	0	14	11	10	9	sw.	Irvling J. Kern.
Orange.....	Essex.....	140	3	.....	.....	.....	.....	.....	.....	2.31	.....	0.77	7	0	8	.....	.....	.....	.....	H. J. Finley.
Paterson.....	Passaic.....	95	72	73.8	+3.7	98	25†	52	10	2.75	-0.95	1.05	7	0	10	12	11	7	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	14	76.4	+4.8	96	26	55	10	5.45	+0.85	1.80	18	0	10	20	5	5	sw.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	560	73.9	+4.4	96	25†	50	10	4.28	-0.55	0.95	26	0	7	17	5	8	.....	Town Engineer.
Plainfield.....	Union.....	120	55	75.1	+6.2	99	26	53	10	3.47	-0.40	1.40	1-2	0	9	9	14	7	sw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	1	.....	.....	.....	.....	.....	.....	3.36	.....	1.23	27	0	7	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville.....	Atlantic.....	8	45	73.8	+5.3	96	4†	50	10†	2.96	-0.54	1.24	18	0	10	23	3	4	w.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	3	.....	.....	.....	.....	.....	.....	2.08	.....	0.76	1	0	9	6	18	6	se.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	26	74.2	+5.5	99	26	52	10	2.34	-1.80	0.93	7	0	8	12	13	5	sw.	George P. Kirsten
Runyon.....	Middlesex.....	18	20	76.6	+8.0	97	26	54	1†	2.83	+1.51	0.68	18†	0	7	21	7	2	w.	N. J. Water Policy Comm.
Sandy Hook.....	Monmouth.....	15	45	73.9	+6.1	97	26	55	7	2.12	-1.66	0.64	29	0	7	22	6	2	sw.	U. S. Coast Guard.
Somerville.....	Somerset.....	385	60	74.8	+5.7	99	26	52	10	4.16	+0.65	1.82	27	0	9	23	2	5	s.	Richard H. Rogers.
Sussex.....	Sussex.....	450	48	73.0	+5.6	98	25	48	6	3.09	-0.99	0.86	1	0	12	17	3	10	w.	Marshall Hunt.
Toms River.....	Ocean.....	33	22	.....	.....	.....	.....	.....	.....	3.86	+0.18	1.39	29-30	0	10	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	71	75.5	+6.0	96	25	55	10	3.31	+0.22	2.05	17-18	0	8	5	15	10	sw.	U. S. Weather Bureau
Trenton No. 2.....	Mercer.....	105	13	75.8	.....	97	25	54	10	3.97	.....	2.74	17	0	7	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	50	76.4	+7.5	98	4†	52	10	3.01	-0.72	0.91	18	0	8	24	2	4	sw.	John H. Brown.
Vineland.....	Cumberland.....	110	63	.....	.....	.....	.....	.....	.....	2.37	-0.85	0.81	18	0	7	23	3	4	s.	Robert Jones.
Westfield.....	Union.....	145	3	.....	.....	.....	.....	.....	.....	2.78	.....	1.10	8	0	10	21	3	6	sw.	Town Engineer.
Woodcliff Lake.....	Bergen.....	103	25	.....	.....	.....	.....	.....	.....	2.33	.....	0.91	1	0	11	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	8	.....	.....	.....	.....	.....	.....	2.35	.....	1.10	18	0	4	22	5	3	sw.	Geo. S. Keen
New York, N. Y.....	.....	10	73	74.4	+5.6	96	25	55	8	3.17	-0.16	1.18	1	0	7	10	13	7	w.	U. S. Weather Bureau
Philadelphia, Pa.....	.....	10	73	76.8	+6.2	97	26	56	9	4.03	+0.79	1.26	17	0	8	5	16	9	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	74.2	+5.2	102	26	45	6	3.24	-0.59	2.74	17	0	9	17	6	7	sw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. †† Received too late to be included in the means. T. precipitation less than 0.01 inch rain or melted snow

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Cause Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton is Port Jervis, N. Y.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia-8-30-43-925

Daily Precipitation for June, 1943

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast	.02	.06					.13	T.	.45				.05				.70	.13									.22	T.	.97	.02	2.75		
Barnegat City ⁴	Coast	.03	T.					T.		.12				T.				.66	.01									.02		1.06	T.	1.90		
Bellevue	Tuckahoe	T.	.13					.01		1.26					.03				.46										.22	.81	.03	2.94		
Belmar	Coast	.39	.08					.01		.09			.01	.25				.10	.01				.01				.06	.01		.44		1.46		
Belvidere	Delaware	1.11						1.10						.08				.57					.01				1.43			1.40		5.69		
Berlin	Mullica	.25				.30								.40				.10							.25				.10			1.40		
Boonton ³	Passaic	.04	.50					.21	.89	.03	.06	.14						.41										T.	.16	.05	.25	2.62		
Bridgeton	Delaware	.09	.19					.19		1.03								.50											.04	.10	.26	.12	2.54	
Brooklawn	do.		.12						.26	.49				.92				1.39										.12	T.	.95	T.	4.25		
Burlington	Delaware	.20	.07						.20					.07				1.37										.15		.12		2.18		
Canoe Brook ³	Passaic	.07	.84					.07	.96	.12	.19	.07		.01				.30										.01		.53	.18	3.35		
Cape May ²	Coast	.01	.02					.04	T.	.45				.05				.28	.16				.31	T.				.03	T.	.73		2.08		
Charlotteburg	Passaic	.85	.08					.97	.05	.08		.10						.91										.06	.20	.04		3.37		
Chatham ³	do.	.08	.90					.09	.79	.05	.24	.07						.16										.02	.48	.16		3.04		
Chatsworth	Coast	.07	.09						.54					.37				1.14												.85	.12	3.18		
Clayton	Delaware		.15						.24	.61								1.65												.70	.30	3.65		
Clinton	do.	.63	T.					.65	.18	.06				.11				T.	1.01								.21	1.09		.54		4.48		
Culvers Lake	do.	.80						.60	.26	.14	T.			T.				.81												.54		3.15		
Dover	Passaic	.85						1.05	.09	.15								.54	T.			.05					.28		.18	.50	T.	3.69		
Egg Harbor City ²	Mullica		.70			.30		.30		.70								.99												.67		3.66		
Elizabeth	Coast	1.00	.22					.82		.34	.01		.04	T.				.15											T.	.67	.31	.05	2.94	
Flemington	Raritan	.64	.10					.52	T.	.26	T.	T.		.02				T.	.97								2.69			.24	T.	5.44		
Freehold	do.	.25	.12					.09	.05	.12	T.				.07			2.22													.78		4.26	
Hammonton	Mullica	.04	.06					.03	.42	.73					.10			1.45										.10	.15	.42	.05	3.55		
Hightstown	Raritan	.18	.28					.29	T.	.12	T.				.10			.55	1.21									.95		.44		4.02		
Indian Mills	Mullica	.13	.06					.06		.57				.08				1.41										.05	.06	.46		2.88		
Jersey City	Coast		.67	.07				T.	.85	T.	1.01							.27												.03	.55	3.45		
Lakewood	Metedeconk	.24	.37						.20						.13			1.12											.06		.63		2.75	
Lambertville	Delaware	.23	T.					.25	T.	.20	T.	T.						.84									.80			.76		3.08		
Layton	do.	.67						.52		.23	T.			.07				.47				.15	.03							.64	.56		3.34	
Little Falls ³	Passaic	.32	.29					.10	1.05	.05	.06	.03			.01		.02		.56									.01		.04	.28		2.69	
Long Branch ²	Coast	.42	.02					.11	.09					.58				1.56	.18									.03	.01	.66		3.66		
Long Valley ³	Raritan		.90					.90		.11	.09				.06			.22					.04						.88	.32	.37		3.89	
Marlton	Delaware	.11	.19					.08		.48				.18				1.40						.03					.20	1.41		4.08		
Millville ²	Maurice		.07					.06		.69								.52											.06	.35		1.74		
Moorestown ³	Delaware	.22	.10						.13	.45	T.				.25			.76					T.	.12					T.	.02	1.23	3.28		
Morris Plains	Passaic	.61						.78	.04	.09	.15			.01				.14											.26	.26	T.	2.34		
Newark ¹	Coast	1.14	T.					1.06		.41	T.			T.				.15										T.		.11	.25		3.12	
New Brunswick	Raritan	.53	.08					.64	.01	.33	T.	T.	T.					.37										1.03		1.25	T.	4.14		
New Milford ²	Hackensack	.93	.03					.91	.01	.10	.02			.20				.31	.04			.03							.01	.38		2.97		
Newton	Delaware	1.23						1.20	.02	.25	.10	.02	T.	.03				.04	1.43				.11					.10	.12	.35	.37	5.37		
Orange ²	Passaic	.57						.77		.36	.02				.26			.26											.01		.22	.10	2.31	
Paterson ²	Passaic	.75	.01					1.05		.08	.02			.04				.50					T.						.01		.02	.27	2.75	
Pemberton	Delaware	.22	.09					.03	.36					1.27				1.80							.60				T.	T.	.01	1.00	.07	5.45
Phillipsburg	do.	.63	.08					.68		.44	T.			T.				.60					T.					.95	T.	T.	.90		4.28	
Plainfield	Raritan	1.22	.18					1.06		.28	.07	T.		.03				T.	.14									.12		.37		3.47		
Plainsboro	Raritan	.19						.52	.03	.14				.59				.73											1.23		.52		3.36	
Pleasantville ³	Coast	.06	.08						.22	.10	.43		.02		.01			1.24												.07		.73	2.96	
Rahway ³	Rahway	.76	.04					.28		.30				.14				.17	.02										T.	.03	.34		2.08	
Ridgefield ²	Hackensack	.54	.01					.93		.19	T.			.02				T.	.30				T.								.25	.10	2.34	
Runyon	Coast	.18	.10					.51		.16								.68												.52			2.83	
Sandy Hook ⁴	Coast	.35						.60		.14	T.		T.	.01				.37	T.								.01				.64		2.12	
Somerville	Raritan	.96	.09					.45	T.	.31	T.	.08	T.	T.	.15			.03										1.82		.27		4.16		
Sussex	Hudson	.86	.02					.48		.18	.04	.02						.34					.08							.16	.64	.15	3.09	
Toms River	Coast	.10	.05						.28				.02	.31				1.38						.30				.03			1.29	.10	3.86	
Trenton ¹	Delaware	.20	T.					.46		.11	T.			.12				2.04	.01									.07		.30		3.31		
Trenton No. 2 ²	Delaware	.27						.36		.14	T.			.04				2.74										.12		.30		3.97		
Tuckerton	Coast	.06	.05					.71		.07				.42				.91															3.01	
Vineland	Maurice	.05	.05					.11		.76								.81											.02	.57			2.37	
Westfield ³	Rahway	.76	.18																															

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight. ⁴ Precipitation is from 1:30 a. m. to 1:30 a. m.

² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

Daily Temperatures for June, 1943

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum....	71	90	94	96	94	72	76	68	64	70	76	75	77	74	74	91	75	87	88	81	86	88	79	80	88	87	77	74	73	80.4	
	Minimum....	61	66	74	75	72	66	62	61	59	57	66	66	66	66	65	68	66	66	66	72	72	71	68	71	68	68	65	61	57	66.4	
Barnegat City†.....	Maximum....	71	87	92	95	92	73	75	67	64	69	78	75	79	75	73	90	76	86	89	88	82	90	77	79	93	90	90	78	74	80.6	
	Minimum....	61	65	71	74	70	64	59	59	59	58	64	62	66	63	60	60	62	63	66	69	70	65	67	65	71	64	65	58	58	63.8	
Bellefleur.....	Maximum....	81	90	92	95	79	77	86	86	70	74	80	84	77	73	85	90	89	86	89	93	101	93	89	92	96	97	97	95	88	71	86.5
	Minimum....	59	60	70	68	68	60	57	55	55	48	58	55	63	67	57	59	64	58	62	67	63	69	60	73	72	74	71	66	55	62.8	
Belvidere.....	Maximum....	84	87	95	97	89	85	74	75	70	69	85	85	92	87	88	91	84	86	93	93	95	96	93	94	100	98	95	93	82	72	87.6
	Minimum....	62	62	66	70	69	53	62	56	59	53	59	53	65	63	61	69	62	65	57	65	65	67	63	60	70	68	70	71	64	56	62.9
Boonton§.....	Maximum....	73	82	90	91	84	80	68	73	63	70	81	80	87	85	82	87	74	83	88	89	92	88	89	96	94	92	84	81	67	82.8	
	Minimum....	59	61	65	74	74	50	61	55	57	52	57	52	59	60	59	65	60	65	55	63	67	66	63	57	62	65	70	72	53	61.7	
Bridgeton.....	Maximum....	85	90	92	94	91	85	89	75	72	76	83	84	92	86	85	89	90	85	89	93	94	98	90	92	95	97	97	92	89	74	87.9
	Minimum....	63	62	69	70	73	63	62	57	57	54	61	62	67	68	59	69	62	67	64	66	71	70	74	64	74	73	77	74	69	57	65.9
Burlington.....	Maximum....	83	86	93	94	90	89	87	73	75	71	85	87	92	87	83	91	91	86	91	93	95	96	93	92	94	95	86	89	90	70	87.6
	Minimum....	62	65	79	72	76	60	63	58	61	57	60	61	67	68	61	71	66	65	67	68	65	70	65	78	74	75	79	76	68	64	67.4
Cape Brook§.....	Maximum....	75	85	91	93	90	79	65	70	59	70	82	82	85	86	88	92	76	90	96	91	95	96	87	89	94	102	101	95	90	73	85.9
	Minimum....	62	61	65	67	68	45	60	54	57	50	54	49	58	62	56	66	57	61	52	60	61	63	59	57	65	63	73	70	70	51	59.9
Cape May*.....	Maximum....	72	89	91	91	89	74	78	68	66	70	78	73	82	77	74	86	77	86	85	75	91	79	81	82	87	89	91	86	85	70	80.7
	Minimum....	60	74	70	70	72	66	65	62	59	57	64	65	68	66	65	69	69	67	68	69	69	70	68	68	69	69	68	63	62	60	66.6
Charlotteburg.....	Maximum....	77	83	89	92	92	83	80	75	74	68	81	82	90	89	82	87	85	81	86	92	91	92	89	89	95	98	91	91	87	70	85.4
	Minimum....	59	60	70	70	71	44	59	54	53	49	56	43	59	62	77	68	54	68	70	61	60	64	57	50	65	58	69	72	66	52	56.7
Chatsworth.....	Maximum....	83	90	93	96	93	86	85	74	66	72	83	84	86	85	90	85	85	90	94	95	95	87	91	100	101	100	96	90	70	88.0	
	Minimum....	61	63	69	69	74	60	59	60	55	51	57	56	63	65	65	60	54	65	55	62	65	63	67	62	72	70	71	68	56	62.6	
Clayton.....	Maximum....	83	87	91	93	90	86	84	81	73	71	82	83	91	87	84	88	89	85	88	92	93	92	88	93	95	96	95	90	87	73	87.0
	Minimum....	63	55	71	71	74	62	62	58	56	54	70	60	67	68	58	70	44	65	60	64	70	68	70	60	63	76	76	73	70	57	64.5
Dover.....	Maximum....	83	89	91	85	78	67	70	61	67	80	79	86	80	81	88	75	81	87	88	90	86	89	94	89	88	77	67	70	87.3	79.3	69.3
	Minimum....	60	69	50	63	51	57	54	55	51	57	50	65	58	64	60	63	58	66	64	66	63	57	71	66	71	62	63	52	68.9	68.9	68.9
Elizabeth.....	Maximum....	79	87	94	98	94	89	74	75	71	73	86	81	92	87	87	93	85	88	93	94	93	95	96	93	91	100	100	96	95	84	80.1
	Minimum....	61	63	69	69	74	60	59	60	55	51	57	56	63	65	65	60	54	65	55	62	65	63	67	62	72	70	71	68	56	62.6	
Flemington.....	Maximum....	81	83	94	93	90	83	80	68	68	70	88	81	90	83	81	82	82	81	82	92	98	97	91	94	99	98	97	91	83	73	85.8
	Minimum....	63	62	69	74	73	55	63	57	59	52	58	55	64	68	59	69	62	64	60	66	67	66	68	62	72	70	70	72	64	56	64.0
Freehold.....	Maximum....	82	87	92	95	86	78	76	74	70	70	84	84	92	86	85	89	88	86	89	88	94	92	90	95	97	94	90	89	72	72	86.1
	Minimum....	60	63	70	72	68	55	59	54	57	52	51	53	62	65	67	62	64	63	61	71	71	70	62	73	81	70	71	64	56	63.5	
Hammonton.....	Maximum....	85	89	94	95	90	88	86	82	66	74	82	84	93	85	86	90	87	85	92	92	95	93	85	91	97	99	96	92	88	80	88.0
	Minimum....	59	62	70	69	70	57	61	54	53	49	58	58	62	65	55	66	59	63	68	59	67	65	60	70	77	70	76	69	63	51	62.8
Hightstown.....	Maximum....	82	85	90	92	86	84	78	70	66	72	84	83	91	82	85	90	85	84	88	90	94	92	85	92	94	96	94	90	85	70	85.3
	Minimum....	62	62	69	71	71	54	61	56	57	51	56	53	64	66	59	70	60	65	60	66	68	67	68	62	72	71	71	73	64	56	63.5
Indian Mills.....	Maximum....	84	88	93	95	93	88	87	76	65	72	85	84	92	87	85	91	86	85	89	92	100	94	88	91	95	98	95	90	86	72	87.5
	Minimum....	62	63	71	70	73	55	60	57	55	48	58	57	66	67	55	69	58	65	58	65	67	65	65	62	73	72	75	71	68	55	63.5
Jersey City.....	Maximum....	81	88	93	95	90	82	61	54	60	60	56	63	61	66	69	68	70	65	65	71	70	72	76	69	64	74	75	75	74	62	67.0
	Minimum....	61	63	70	73	73	55	59	56	57	49	58	55	60	66	58	70	62	65	60	67	69	69	68	61	73	73	75	74	67	56	64.1
Lakewood.....	Maximum....	82	86	92	93	92	83	78	68	68	69	83	84	91	86	85	90	87	84	88	90	92	92	89	90	94	96	93	90	84	72	85.7
	Minimum....	62	62	66	70	70	55	64	56	58	54	57	52	65	65	60	69	61	64	59	66	66	66	67	61	72	71	71	73	66	56	63.1
Lambertville.....	Maximum....	80	85	92	94	85	80	75	74	66	66	81	81	92	83	84	86	76	83	90	91	90	83	89	88	98	95	96	89	75	74	84.4
	Minimum....	63	59	62	62	67	46	56	54	55	54	51	45	69	59	63	68	58	61	52	61	60	63	54	58	64	65	68	71	59	49	59.2
Little Falls§.....	Maximum....	72	86	93	95	87	82	68	66	85	71	85	83	91	84	86	90	82	86	93	92	92	95	90	92	99	96	95	92	78	69	85.8
	Minimum....	62	62	68	71	72	53	62	55	58	52	57	53	65	66	60	71	61	65	58	55	66	68	64	59	70	67	71	74	72	54	60.7
Long Branch*.....	Maximum....	74	87	93	94	88	74	75	74	65	72	80	75	93	78	81	90	75	84	88	91	87	93	83	83	95	98	94	93	87	70	83.8
	Minimum....	63	61	73	75	66	59	57	55	56	51	60	61	65	62	61	70	64	66	64	69	70	70	69	66	74	74	74	75	66	55	65.0
Long Valley§.....	Maximum....	79	86	90	93	85	82	67	74	62	70	82	82	88	83	82	87	76	86	89	90	93	92	88	90	97	96	93	90	78	70	84.0
	Minimum....	57	58	63	67	66	48	59	53	56	50	49	47	59	64	53	61	56	61	57	58	61	62	61	52	62	61	66	67	68	47	58.0
Moorestown*.....	Maximum....	82	86	90	92	87	86	77	72	65	70	82	83	90</																		

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

JULY, 1943.

No. 7

GENERAL SUMMARY.

The month began cool and continued so through most of the first decade. A change to warmer then occurred and temperatures remained above normal for practically the remainder of the month. The average of all stations, 74.2°, was only slightly above normal and was exactly the same as for the hot June preceding. No heat wave during the month approached in severity that of the last half of June. The number of days this month with temperatures of 90° or above at certain stations was as follows: Atlantic City, 1; Trenton, 5; Newark, 8; Indian Mills, 10; Bridgeton, 17; New Brunswick, 3; Long Branch, 2; Flemington, 12; Sussex, 1; and Long Valley, Boonton, and Layton, 0.

Precipitation averaged 90% of normal but varied greatly in different localities. This variation was especially marked in the southern part of the State. At Millville, only 0.77 inch of rain fell during the month, while at Hammonton, only about 22 miles away, the heaviest monthly amount, 9.47 inches, was recorded. The heaviest storm occurred on the 7th, when very heavy rains fell over a limited area in south and central Jersey. This storm appears to have produced falls of four inches or more over an area of about 300 square miles, centering about Fort Dix and Pemberton. Moreover, practically all the rain fell between 1:00 a. m. and noon of the 7th. Amounts exceeding two inches occurred over an area approximately four times as large as the above. Some of the heaviest amounts which fell on the 7th were 4.90 inches at Pemberton, 6.43 inches at Whitesbog Cranberry Station, 4.65 inches at Fort Dix Air Base, 4.68 inches at S. C. S. Station No. 9, 3.90 inches at S. C. S. Station No. 6, 3.80 inches at Marlton, 3.50 inches at Indian Mills, and 4.53 inches at Hammonton.

TEMPERATURE.

The monthly mean temperature for the State, as computed from observations of 40 stations, was 74.2°, which was 0.4° above normal. The highest temperature was 97° at Bridgeton on the 21st, and the lowest, 39°, at Layton on the 1st. The highest monthly mean temperature was 77.7° at Burlington, and the lowest, 70.0°, at Long Valley.

The temperature departure from the normal for the year, 1943, to date, for the State is +0.7°.

PRECIPITATION.

The mean total precipitation for the State, as computed from observations of 60 stations, was 4.21 inches, which was 0.48 inch below normal. The greatest monthly precipitation was 9.47 inches, at Hammonton, and the least, 0.68 inch, at Cape May. The greatest amount of precipitation in any 24 consecutive hours was 4.90 inches at Pemberton on the 7th.

The average for the Highlands was 4.20 inches; for the Red Sandstone Plain 4.85 inches; for the Southern Interior 4.24 inches; and for the Seacoast 2.56 inches.

The precipitation accumulated departure from the normal for the year 1943, to date, by sections, is: The Highlands, -2.47 inches; Red Sandstone Plain, -2.88 inches; Southern Interior, -3.48 inches; Sea Coast, -7.55 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 9, 10, 11, 12, 14, 24, 26, 27.

THUNDERSTORMS: 5, 6, 7, 9, 10, 11, 12, 13, 14, 20, 21, 22, 25, 26, 27, 28, 29, 30, 31.

HAIL: 20, 21.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.39	2	29.69	30	12.5	35	ne.	7	83	73	84	63	0
Long Branch.....	30.37	2	29.69	30	9.3	33	nw.	22	79	56	70	66	0
Trenton.....	30.39	2	29.67	30	7.0	24	nw.	27	81	55	64	63	0

COMPARATIVE DATA FOR JULY.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	0.1 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	75.2	100	44	3.50	0	.....	.....	.....	.....
1886.....	73.0	98	48	4.91	0	.....	.....	.....	.....
1887.....	77.1	102	54	7.67	0	11	.....	.....	.....
1888.....	71.1	95	45	3.50	0	9	.....	.....	.....
1889.....	73.4	95	48	10.19	0	14	.....	.....	.....
1890.....	72.5	101	39	5.62	0	9	12	11	8
1891.....	70.1	95	43	5.30	0	12	10	11	10
1892.....	74.3	105	44	4.03	0	8	12	14	5
1893.....	73.9	102	40	2.72	0	8	14	13	4
1894.....	75.7	106	44	1.66	0	6	14	12	5
1895.....	70.9	99	41	4.26	0	10	12	12	7
1896.....	75.0	98	47	5.50	0	13	13	10	8
1897.....	74.1	102	50	11.42	0	15	10	11	10
1898.....	75.3	107	38	4.96	0	10	11	13	7
1899.....	74.7	98	38	5.75	0	11	13	11	7
1900.....	75.9	104	42	4.74	0	11	15	12	4
1901.....	77.3	107	45	5.87	0	14	9	13	9
1902.....	73.0	100	43	4.78	0	13	10	12	9
1903.....	73.3	100	38	5.51	0	12	16	10	5
1904.....	72.3	98	42	4.87	0	13	13	10	8
1905.....	74.4	102	42	4.06	0	12	12	13	6
1906.....	72.8	94	46	5.58	0	12	11	14	6
1907.....	73.6	96	40	2.62	0	8	8	12	11
1908.....	75.6	106	42	4.70	0	9	12	13	6
1909.....	71.6	99	36	2.12	0	5	14	14	3
1910.....	75.3	99	42	1.36	0	5	12	12	7
1911.....	76.0	104	42	3.64	0	8	12	12	7
1912.....	73.7	100	36	3.86	0	9	14	10	7
1913.....	74.4	100	41	2.52	0	8	20	9	2
1914.....	71.5	97	40	6.05	0	15	9	11	11
1915.....	72.8	98	44	5.31	0	14	10	13	8
1916.....	74.4	97	45	5.40	0	12	11	9	11
1917.....	74.2	104	46	4.83	0	12	10	11	10
1918.....	72.2	104	39	3.93	0	8	17	9	5
1919.....	73.5	103	43	8.39	0	14	14	7	10
1920.....	71.7	96	42	5.76	0	11	17	10	4
1921.....	76.5	99	43	3.62	0	10	14	9	8
1922.....	73.0	98	44	5.79	0	13	13	9	9
1923.....	71.9	102	40	3.88	0	11	15	8	8
1924.....	71.6	98	41	2.59	0	6	19	8	4
1925.....	72.0	99	39	7.37	0	13	15	9	7
1926.....	73.0	105	40	5.46	0	12	16	7	8
1927.....	72.7	99	36	6.06	0	11	13	10	8
1928.....	74.2	96	41	6.86	0	12	16	8	7
1929.....	73.0	102	33	1.64	0	6	17	9	5
1930.....	74.3	105	42	3.98	0	10	16	9	6
1931.....	76.6	102	50	4.24	0	11	13	10	8
1932.....	73.8	98	41	2.76	0	8	19	8	4
1933.....	73.4	105	41	3.73	0	8	16	8	7
1934.....	75.8	100	43	3.65	0	9	16	9	6
1935.....	76.0	101	40	4.66	0	10	14	11	6
1936.....	74.6	110	40	2.47	0	8	17	8	6
1937.....	74.6	103	43	2.83	0	9	17	8	6
1938.....	74.7	98	43	8.84	0	16	11	10	10
1939.....	73.4	98	38	2.33	0	8	14	10	7
1940.....	73.9	104	40	2.73	0	9	15	9	7
1941.....	73.8	105	41	6.40	0	15	12	8	11
1942.....	74.6	105	41	7.30	0	12	13	10	8
1943.....	74.2	97	39	4.21	0	10	14	9	8
Period.....	73.8	110	33	4.69	0	10	14	10	7

Climatological Data for July, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, 30 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	70	73.0	+0.9	92	16	54	1	1.64	-2.29	0.82	8-9	0	8	10	11	10	s.	U. S. Weather Bureau.
Barnegat City	Ocean	36	23	71.8		90	23	52	3	2.41		1.57	6-7	0	8					U. S. Coast Guard.
Belleplair	Cape May	49	49					43	2†	2.69	-1.62	1.15	7	0	8	17	6	8	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	1							5.03		2.22	7	0	11				w.	City Water Dept.
Belvidere	Warren	289	51	75.6	+1.9	94	17	45	1	4.97	+0.43	0.98	21	0	11	12	10	9		Miss C. S. Hixson.
Berlin	Camden	70	2							1.90		0.80	12	0	5	24	7	0		Samuel H. McCulley.
Bloomton	Morris	280	53	72.8	+0.6	89	17†	48	2†	3.88	-0.76	0.82	5†	0	13	15	3	13	ne.	John Klue.
Bridgeton	Cumberland	30	60	77.0	+0.5	97	21	49	1	1.77	-2.68	1.15	25-26	0	8	21	5	5	sw.	Bennett K. Matlack.
Brooklawn	Camden	30	2							5.01		2.59	7	0	8					C. D. Scott.
Burlington	Burlington	12	57	77.7	+1.8	93	23	54	1	4.76	-0.18	3.21	7	0	8	19	11	1	sw.	Public Service E. & G. Co.
Canoe Brook	Essex	180	13	73.1	+1.0	96	20	41	1	3.85	-0.59	0.84	9	0	14	14	6	11	sw.	N. J. Water Policy Comm.
Cape May	Cape May	17	55	72.4	-1.0	90	16†	57	1	0.68	-3.17	0.18	13	0	9	11	7	13	s.	Naval Air Station.
Charlotteburg	Passaic	760	51																	Newark Water Dept.
Chatham	Morris	185	39							4.28	-0.66	0.70	5	0	11	14	12	5		Paul Molitor, Sr.
Chatsworth	Burlington	90	2	74.1		93	21	46	2	4.55		1.95	7	0	9	11	14	6	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	30	73.0	-2.2	96	20	49	1	2.24	-2.32	0.56	14	0	5	9	5	17	w.	Worthy Hitt.
Clinton	Hunterdon	300	0							4.82		0.83	21	0	12	24	6	1	sw.	L. W. Klockner.
Culvers Lakell	Sussex	760	42							2.10	-2.68	1.05	5	0	8					L. S. Depue.
Dover	Morris	600	59	71.7	+0.1	88	27	46	1	5.69	+0.48	1.40	5	0	11	4	11	16		William C. Harris.
Egg Harbor City	Atlantic	63	21							3.89	-1.10	2.30	7	0	9					Chas. E. Hall.
Elizabeth	Union	34	64	77.2	+1.9	95	27	53	2	4.19	-0.53	1.19	9	0	11	19	2	10	ne.	Union County Park Comm.
Flemington	Hunterdon	140	57	76.2	+1.3	95	21†	49	1	4.38	-0.47	1.43	11	0	12	18	5	8	w.	Hiram E. Deats.
Freehold	Monmouth	194	39	74.2	-0.5	91	24	48	1	2.86	-1.89	1.28	7	0	10	17	11	3	w.	Moreau Plant Co.
Hammonton	Atlantic	95	37	73.8	-2.1	94	21	44	1	9.47	+4.93	4.53	7	0	12	15	7	9	se.	J. G. Wilson.
Hightstown	Mercer	110	50	74.4	+0.2	93	21	49	1	4.01	-0.91	1.42	7	0	10	11	13	7	sw.	James R. Pickering.
Indian Mills	Burlington	100	54	74.8	+0.2	96	21	42	1	5.07	+0.32	3.50	7	0	12	11	18	2	s.	Edward Entwistle.
Jersey City	Hudson	81	45					54	1†	4.08	-0.27	2.02	6	0	8	13	8	10	se.	J. C. Water Dept.
Lakewood	Ocean	54	39	74.1	+0.6	91	17	48	1†	5.48	+0.48	2.60	7	0	12	10	10	11	sw.	R. W. Holman.
Lamoererville	Hunterdon	75	56	74.6	+0.5	92	17†	49	1	3.87	-0.77	1.10	5	0	7	18	7	6	sw.	Mabel Wollaston.
Layton	Sussex	480	42	72.0	+0.8	90	20	39	1	2.63	-1.77	1.08	5	0	6	12	8	11	s.	A. M. Depue.
Little Falls	Passaic	157	40	74.8	+0.8	93	21	47	1	4.93	+0.21	0.95	5	0	13	14	12	5	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	35	73.2	+0.3	90	15†	50	1	3.25	-2.06	1.04	5	0	8	11	5	15	s.	Storm Warn. Display Sta.
Long Valley	Morris	660	13	70.0		89	17†	42	1	4.77	+0.07	0.98	22	0	11	19	9	3	sw.	Arthur Barkman.
Marlton	Burlington	90	1							6.88		3.80	7	0	11	16	12	3	sw.	David Griscom.
Millville	Cumberland	60	2							0.77		0.23	9	0	5	9	14	8		Paul Ritchie.
Moorestown	Burlington	62	80	75.0	+0.2	93	21	51	3	5.67	+0.97	3.78	7	0	12	12	9	10	nw.	Japanese Beetle Laboratory
Morris Plains	Morris	500	2							6.10		1.57	10	0	13	20	8	3		James C. Loug.
Newark	Essex	10	89	75.8	+1.1	95	27	52	1	4.64	-0.31	1.47	5	0	13	9	8	14	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	89	74.5	+0.4	90	17†	50	1	3.28	-1.95	1.03	7	0	10	15	9	7	sw.	N. J. Experiment Station.
New Milford	Bergen	12	25							7.60	+3.07	3.15	20	0	10					Hackensack Water Co.
Newton	Sussex	769	60	72.2	-0.4	93	12	43	1	3.04	-1.79	0.84	5	0	13	9	8	14	sw.	Irving J. Kern.
Orange	Essex	140	3							4.45					11					County Engineer.
Patterson	Passaic	95	72	74.5	-0.1	92	21†	48	1	5.71	+1.41	1.92	5	0	11	10	13	8	sw.	J. W. Cook.
Pemberton	Burlington	55	14	75.8	-0.1	94	21	50	1	7.00	+2.74	4.90	7	0	10	14	4	13	s.	Charles S. Beckwith.
Phillipsburg	Warren	182	60	73.7	-0.3	91	18†	47	1	4.93	+0.45	1.15	28	0	10	11	13	7		Town Engineer.
Plainfield	Union	120	55	75.0	+1.1	93	27	47	1	4.88	+0.67	1.10	5	0	13	6	18	7	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	1							6.31		1.67	7	0	10					Walker-Gordon Lab.
Pleasantville	Atlantic	8	45	72.4	-0.9	91	16†	44	1†	3.04	-1.02	1.17	7	0	12	18	6	7	s.	N. J. Water Policy Comm.
Rahway	Union	20	3							4.44		1.38	5	0	7	14	14	3	nw.	Louis Fontenelli.
Ridgefield	Bergen	80	26	74.8	+1.1	94	27	46	1	3.91	-0.91	1.41	5	0	9	11	10	10	nw.	George P. Kirsten.
Rumyon	Middlesex	18	20	77.4	+4.4	94	21	61	8	2.48	-1.66	0.86	7	0	8	22	9	0	w.	N. J. Water Policy Comm.
Sandy Hook	Monmouth	15	45	74.8	+1.3	90	27	55	1	2.36	-2.76	0.64	5	0	8	9	5	17	s.	U. S. Coast Guard.
Somerville	Somerset	385	60	73.2	-0.8	92	17†	45	1	7.20	+1.96	1.90	11	0	11	20	9	2	s.	Norbert Larky.
Sussex	Sussex	450	48	73.2	+1.9	90	27	42	1	3.93	+0.11	1.10	6	0	12	15	8	8	w.	Marshall Hunt.
Toms River	Ocean	33	22							6.24	+0.69	2.73	7	0	11					Robt. F. Snyder.
Trenton	Mercer	56	71	75.8	+1.3	92	21	54	1	3.49	-0.45	1.75	7	0	11	5	12	14	s.	U. S. Weather Bureau.
Trenton No. 2	Mercer	105	13	75.4		91	17	52	1	4.24		1.69	7	0	12					Edward H. Ristow.
Tuckerton	Ocean	23	50	75.2	+1.0	92	16†	48	1	2.76	-1.22	1.19	7	0	9	18	4	9	sw.	John H. Brown.
Vineland	Cumberland	110	63							2.01	-2.52	1.01	26	0	10	15	15	1	w.	Robert Jones.
Westfield	Union	145	3							4.84		1.12	9	0	10	18	6	7	s.	Town Engineer.
Woodcliff Lakell	Bergen	103	25							5.61	+1.68	1.42	21	0	12					Hackensack Water Co.
Woodstown	Salem	16	8							2.20		0.80	22	0	5	17	11	2	w.	Geo. S. Keen.
New York, N. Y.		10	73	75.8	+2.0	89	21	55	1	3.87	-0.37	1.28	4-5	0	10	8	10	13	s.	U. S. Weather Bureau.
Philadelphia, Pa.		10	73	76.4	+1.1	94	21	52	1	3.94	-0.21	1.40	7	0	12	7	12	12	sw.	U. S. Weather Bureau.
For the State				74.2	+0.4	97	21	39	1	4.21	-0.48	4.90	7	0	10	14	9	8	sw.	

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. † Received too late to be included in the means. T. precipitation less than 0.01 inch rain or melted snow

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated

‡ Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Ruynon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia-9-16-43-925

ERRATA.

June 1943: Clayton prevailing wind, west; Little Falls total rainfall 2.82, departure, -1.20; New Brunswick monthly minimum temperature, 52° on 30th; Ridgefield monthly maximum temperature, 100° on 26th.

Daily Precipitation for July, 1943

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast					.10	.06	.23	.46	.36	T.	T.		T.	T.							T.		.32			.02	.09		T.	T.			1.64
Barnegat City ¹	Coast					.12	.40	1.17	.25	.01				T.	T.									.34			.02	.10					2.41	
Belleplain	Tuckanoe					.22	.43	1.15	.03	.42						.08											.28		.08				2.69	
Belmar	Coast					.54	T.	2.22	.04	.32	T.	T.		.87	.22							.22	T.	.07		T.	T.	.03	T.	.01	.49	T.	5.03	
Belvidere	Delaware					.42		.08		.70	.41	.64		.05				T.					.98	.73			.13				.75	.08	4.97	
Berlin	Mullica					.30				.20	.50		.80														.10						1.90	
Boonton ³	Passaic					.82	.50	T.	.15	.82	T.	T.	.01			.35							.17	.36	.05			.05		.10	.47	.03	3.88	
Bridgeton	Delaware					.22		.20				.07	.04		.05												.15	1.00		.04			1.77	
Brooklawn	do					.93	T.	2.59		.22	.47	T.												.15			.31		.14	.20			5.01	
Burlington	Delaware					.50	.29	3.21		.12				.05	.19													.20			.20		4.76	
Canoe Brook ³	Passaic					.70	.52	.05	.28	.84		.08				.07							.07	.50	.20		.08			.04	.34	.08	3.85	
Cape May ²	Coast					.07	.02	.03	.15	T.	T.	T.	T.	.18	T.	.01								.15			.06			.01			T.	0.68
Charlotteburg	Passaic																																	
Chatham ³	do					.70	.52	.08	.27	.69	T.	.21		T.		.13							.07	.57	.22			.13		.02	.55	.12	4.28	
Chatsworth	Coast					.26		1.95		.25			.35	.02	.57									.45				.32				.38	4.55	
Clayton	Delaware										.40					.56								.53				.55					2.24	
Clinton	do					.59	.04	.50		.18		.75	.12		.34								.83	.44			.03			.66		.30	4.82	
Culvers Lake	do					1.05	T.	.03		.05		.03	T.			.30													.03	.58		.03	2.10	
Dover	Passaic					1.40		.20		.67	.68	.13			.49								.05		.70		.17		.14	1.06			5.69	
Egg Harbor City ²	Mullica						.30	2.30		.30														.10	.10		.10		.43			.10	3.89	
Elizabeth	Coast					1.13	.15	.65		1.19	T.	T.		T.	.07									.20	.07			.02		.41	.13	.17	T.	4.19
Flemington	Raritan					.78	.15	.53		.40	T.	1.43	T.											.62	.04		.02	.03		.25	.06	.07	4.38	
Freehold	do					.60	.22	1.28		.09				.03	.16									.30	.06				T.	.06			2.86	
Hammonton	Mullica					.27	.05	4.53		.11	.13		.84	.01	1.65									.85	.06			.87					.07	9.47
Hightstown	Raritan					.84	.07	1.42		T.	.22	T.	T.	.11	.30								.49	T.			.39	T.	T.	.11	.06		4.01	
Indian Mills	Mullica					.21		3.50		.10	.08	.02	.04	.01	.29									.35			T.	.43		.02	.02		5.07	
Jersey City	Coast					.02	2.02		.34		.74				.06										.35		.35				.24	.31	4.08	
Lakewood	Metedeconk					.50		2.60		.58			.06	.22	.20									.75	.26			.10		.03	.10	.08	5.48	
Lambertville	Delaware					1.10		1.05		.40				.19										.60				.17				.36	3.87	
Layton	do					T.	1.08						.01											.20	.58			.11	.60			.06	2.63	
Little Falls ³	Passaic					.95	.80	.01	.23	.82														.26	.66	.04				.07	.46	.10	4.93	
Long Branch ²	Coast					T.	1.04		.54	.48				.14	.04									.26	.66		.04				.09		3.25	
Long Valley ³	Raritan					.74			.42	.55		.48	.82										.40		.98			.05		.10	.15	.08	4.77	
Marlton	Delaware					.55	.03	3.80		.23		.55	.03	.88	.02									.44			T.	.46		.02		.10	6.88	
Millville ²	Maurice					.19				.23																		.05	.15	.15			0.77	
Moorestown ³	Delaware					.43	.10	3.78	.23	.10		.14	T.	.01														.01	.20		.11	.22	5.67	
Morris Plains	Passaic					1.17	.37	.03		1.47	1.57	.04	.11										.19	.79			.04		.04	.23	.05		6.10	
Newark ¹	Coast					.07	1.47		.52	.05	.08	T.	T.		T.	.05							.03	.02	1.36		.01	T.	.08	.08	.32		4.64	
New Brunswick	Raritan					.68	.01	1.03	T.	.92	T.	.25		T.										.09	T.			.04		.01	.08	.22	3.28	
New Milford ²	Hackensack					.03	1.26		.10	1.05					.25							3.15	.20	.49					.08	.99			7.60	
Newton	Delaware					.84	.06	.13		.51	.03	.32	.03	T.										.40			.05	.01	.11	.43	.12		3.04	
Orange ²	Passaic					1.57		.36	.05	.88															.72			.11	.35	.03	.38		4.45	
Paterson ²	Passaic					.07	1.92		.16	1.00	T.				1.10								.20	.06	.36			T.		.07	.76	.01	5.71	
Pemberton	Delaware					.64		4.90		.05	.10	.12	T.	T.										.67		.05		.20			.06	.21	7.00	
Phillipsburg	do					.03	.45		T.	T.	.45	T.	.90	T.	.09	T.							.80		.78		.15		1.15	.13			4.93	
Plainfield	Raritan					T.	1.10	.81	.62		.90	.01	.01		T.	.11								.35	.45			.03	.02		.28	.19	T.	4.88
Plainsboro	Raritan					.92	.04	1.67		1.14		1.12		T.	.44									.30				.58		.04		.06	6.31	
Pleasantville ³	Coast					.18	T.	1.17	.11	.34	.01				.01	.02	.16									.70			.14	.11	.09		3.04	
Rahway ²	Rahway					1.38	T.	.55	T.	.98	T.													.08		.55		T.		.24	.66		4.44	
Ridgefield ²	Hackensack					T.	1.41	.08	.16	.45		T.		T.	.03										.26	.84			T.		.23	.45	3.91	
Rumson	Coast					.82	.22	.86		.05	.05														.32			.05				.11	2.48	
Sandy Hook ¹	Coast					.01	.64	T.	.27	T.	.57			T.	.02	T.							.02		.61			T.	T.	T.		.22		2.36
Somerville	Raritan					.93	.28	.91		.93	.07	1.90												1.15	.10					.80	.03	.10	7.20	
Sussex	Hudson					.80	1.10	.09		.11		.02	.33		.03									.05	.44			T.	T.	.04	.86	.06	3.93	
Toms River	Coast					.31		2.73		1.03			.04	.19	.33								.17		.23			.87		.08	.26		6.24	
Trenton ¹	Delaware					.03	.72		1.75		.14	.25	.03	T.	.12	.07							.34					.02	T.	T.		.		

Daily Temperatures for July, 1943

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*	Maximum	68	72	71	75	72	72	66	73	71	79	80	79	78	76	80	92	78	89	88	80	82	84	76	79	79	81	82	85	88	86	80	78.7	
	Minimum	54	59	60	64	66	64	62	63	65	68	70	70	69	70	71	70	70	70	68	70	72	70	66	68	70	70	68	69	72	72	68	67.4	
Barnegat City†	Maximum	68	74	72	75	71	72	64	72	69	74	80	78	79	76	85	89	80	87	87	81	82	81	75	82	80	86	82	83	90	87	80	78.7	
	Minimum	56	55	52	61	61	59	61	61	64	65	68	68	68	66	72	70	66	67	67	63	69	68	66	66	68	68	66	66	68	66	67	64.8	
Belleplain	Maximum	76	81	79	84	87	83	73	78	80	86	87	70	68	67	60	60	72	58	53	65	67	58	53	61	67	60	62	70	65	59	61.0		
	Minimum	44	43	43	50	66	65	62	61	64	66	67	69	70	68	67	60	62	58	53	62	53	58	53	53	53	53	53	53	53	53	53	53	
Belvidere	Maximum	79	83	85	81	89	87	74	84	82	88	83	92	90	91	93	92	94	92	88	92	93	87	88	93	93	86	92	89	84	87	90	87.8	
	Minimum	45	53	52	59	66	64	63	64	68	69	70	71	69	70	68	64	63	70	59	58	62	67	63	59	66	65	67	65	66	63	58	63.4	
Boonton§§	Maximum	75	81	79	78	83	87	73	82	79	85	84	87	85	86	88	87	89	87	85	88	86	80	85	85	88	87	86	88	87	86	85	84.3	
	Minimum	49	48	48	54	59	63	65	64	66	67	69	72	70	66	69	62	58	67	58	60	60	67	61	57	57	65	63	64	65	62	59	61.4	
Bridgeton	Maximum	77	85	82	86	90	85	76	82	87	89	91	95	88	90	93	93	95	90	89	93	97	94	87	91	95	82	90	88	91	85	88	88.5	
	Minimum	49	54	53	57	68	69	65	63	67	70	74	70	72	69	64	67	74	63	59	70	70	64	63	67	67	65	65	72	67	66	65	65.6	
Burlington	Maximum	76	77	75	79	89	85	79	81	79	83	85	92	88	89	92	92	95	91	90	92	94	98	98	94	93	86	93	90	90	97	90	88.1	
	Minimum	54	56	60	59	68	69	64	65	67	70	72	71	71	71	69	69	68	67	62	67	63	68	69	72	70	69	68	70	77	69	67.3		
Canoe Brook§§	Maximum	81	84	85	88	90	91	68	76	84	92	89	91	89	83	89	86	87	95	90	96	89	83	82	94	88	85	91	84	79	81	83	86.5	
	Minimum	41	44	46	52	54	62	63	63	65	65	71	70	69	65	68	58	56	65	52	53	58	67	62	56	62	62	61	63	64	59	55	59.7	
Cape May*	Maximum	67	72	75	73	73	77	71	74	78	77	76	76	76	75	80	90	75	90	84	77	80	83	82	79	77	87	79	81	86	86	83	78.6	
	Minimum	57	60	59	60	63	65	65	64	68	68	69	68	68	65	72	71	65	67	71	61	68	67	65	67	67	66	69	70	67	68	72	66.2	
Charlotteburg	Maximum	76	79	80	84	85	84	76	78	80	86	88	89	85	87	91	89	91	86	86	91	93	87	82	90	90	93	92	87	91	87	87	85.8	
	Minimum	55	46	50	50	68	68	62	62	62	60	70	70	69	70	68	59	61	70	61	54	64	67	62	60	64	65	62	65	65	63	61	62.4	
Clayton	Maximum	76	80	79	83	88	86	89	75	83	89	86	91	86	86	91	91	88	88	90	96	95	84	89	91	82	90	86	90	86	93	84.1*		
	Minimum	49	52	50	55	69	68	55	63	67	68	72	72	72	70	69	63	72	64	56	68	68	63	59	66	68	64	65	69	66	63	61	62.0*	
Dover	Maximum	73	76	77	76	82	82	75	78	77	84	81	85	82	84	86	84	85	85	83	84	87	83	81	85	85	84	88	85	84	85	79	81	81.9
	Minimum	46	47	48	55	64	62	61	63	65	67	67	72	69	68	68	65	58	68	56	55	62	56	60	58	66	66	63	64	65	62	59	61.5	
Elizabeth	Maximum	79	83	82	81	86	87	82	81	79	86	86	89	89	91	92	91	90	92	89	91	94	90	88	93	92	89	95	91	85	89	91	87.8	
	Minimum	55	53	58	59	69	68	70	65	66	71	73	72	70	69	69	72	73	71	67	69	66	70	71	62	63	66	68	64	66	65	61	66.5	
Flemington	Maximum	79	85	82	82	89	88	79	84	82	89	86	90	87	89	84	91	93	89	86	90	95	90	87	95	90	85	93	91	85	87	93	87.9	
	Minimum	49	53	53	58	67	67	62	64	66	71	71	72	70	69	66	64	63	71	60	60	64	68	64	60	66	65	64	66	68	64	64	64.4	
Freehold	Maximum	75	78	81	80	86	84	76	78	79	85	86	85	85	82	90	89	90	89	85	88	89	88	83	91	88	88	90	88	89	85	88	85.1	
	Minimum	48	52	53	52	67	67	62	67	64	65	70	71	69	66	65	64	63	71	60	60	63	67	63	61	65	66	66	65	62	64	60	63.2	
Hammonton	Maximum	77	78	84	88	85	83	78	84	85	89	86	86	86	86	90	90	92	88	87	88	94	88	84	90	89	80	88	88	91	86	88	86.2	
	Minimum	44	47	47	52	66	67	62	61	64	63	68	69	68	67	61	62	71	59	54	65	65	61	58	61	63	61	63	65	62	61	61.5		
Hightstown	Maximum	76	80	82	81	86	83	73	80	79	87	84	89	87	86	90	88	91	88	86	88	93	87	83	90	89	84	82	87	84	85	88	85.4	
	Minimum	49	52	51	56	67	62	63	66	65	69	71	69	70	68	63	62	72	59	59	63	70	64	61	55	64	66	65	67	64	60	63.5		
Indian Mills	Maximum	76	85	81	84	86	86	73	79	84	85	87	89	86	85	91	92	88	89	90	96	87	87	91	89	83	90	90	90	89	92	86.8		
	Minimum	42	47	45	53	68	67	64	63	66	68	70	72	70	71	69	61	60	72	57	55	65	68	63	56	66	67	64	66	70	64	59	62.8	
Jersey City	Maximum	54	54	57	58	60	63	66	60	65	64	68	70	71	71	72	72	70	73	72	70	67	68	69	65	67	70	70	72	70	69	62	66.4	
	Minimum	76	78	80	82	85	84	76	77	77	84	86	85	85	85	80	89	91	86	86	90	89	87	85	89	88	87	90	88	87	86	85	85.0	
Lakewood	Maximum	48	50	48	55	68	62	62	61	65	66	71	72	70	70	68	62	62	70	60	57	63	67	64	60	65	67	64	66	67	65	62	63.2	
	Minimum	75	80	80	81	86	87	80	81	82	87	85	88	84	88	88	90	92	88	86	89	92	87	87	90	88	79	90	86	82	84	87	85.5	
Lambertville	Maximum	49	52	52	57	66	65	62	60	66	69	71	72	68	70	64	63	63	71	59	60	64	68	64	64	67	64	65	66	68	64	60	63.8	
Layton	Maximum	74	80	78	77	84	83	71	78	82	85	80	88	86	86	88	88	89	88	84	90	87	81	85	87	87	86	81	84	86	81	84	83.9	
	Minimum	39	44	45	55	64	58	62	60	63	66	67	68	67	69	58	54	55	65	65	60	66	59	56	63	61	61	61	62	65	61	60.1		
Little Falls§§	Maximum	77	82	81	82	85	87	76	80	80	86	85	89	87	88	91	90	91	90	86	89	93	85	86	89	86	92	89	85	89	90	86	86.3	
	Minimum	47	50	50	56	66	64	65	64	66	67	70	72	71	68	70	62	60	70	57	57	63	67	64	60	66	67	65	66	65	63	60	63.2	
Long Branch*	Maximum	72	73	74	79	83	80	66	72	73	78	80	83	82	85	90	87	83	89	86	88	86	86	85	79	84	84	85	90	85	86	86	82	81.8
	Minimum	50	53	51	57	66	66	61	64	66	65	70	73	70	70	65	63	68	62	60	64	67	66	62	68	70	67	68	70	67	64	64	64.5	
Long Valley§§	Maximum	75	80	74	78	82	84	70	87	79	84	81	86	84	87	88	84	89	86	83	87	89	84	86	88	88	84	89	86	82	86	86	83.7	
	Minimum	42	45	44	50	57	62	59	58	63	65	67	68	66	64	57	55	64	52	51	58	59	58	54	60	64	59	62	62	62	57	56.2		
Moorestown*	Maximum	75	80	78	81	86	84																											

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

AUGUST, 1943.

No. 8

GENERAL SUMMARY.

The month averaged warmer than normal, but there was no extended and severe heat wave. Days with 90° or higher were well distributed throughout the month, with not more than three or four in succession, as a rule. The number of such days at certain representative stations was: Trenton, Newark, Freehold, and Paterson, 10; Phillipsburg, 7; Boonton and Long Valley, 5; Indian Mills and Bridgeton, 17; while at the coast stations of Cape May and Atlantic City, the temperature did not reach 90° during the month. The hottest days were the 2d, 8th, 10th, 14th, 23d, and 25th. A cool spell occurred around the 20th, when minima in the forties were common over the State.

Rainfall was decidedly deficient, with the least August average since 1925. The deficiency was not serious in north Jersey, but the southern half of the State, which averaged scarcely an inch whereas the normal amount is five inches, suffered severely. Most of the southern stations had less than normal in July and by the end of August, serious drought conditions prevailed. The usual large production of truck crops in the area was greatly curtailed, the second cutting of alfalfa was almost a complete failure, pastures were poor, and much field corn was being cut for feeding and for silos.

There were no destructive storms

TEMPERATURE.

The monthly mean temperature for the State, as computed from observations of 40 stations, was 73.2°, which was 1.2° above normal. The highest temperature was 99° at two stations on the 2d and 10th, and the lowest, 39°, at Sussex on the 7th. The highest monthly mean temperature was 76.8° at two stations, and the lowest, 69.2° at Charlotteburg.

The temperature departure from the normal for the year, 1943, to date, for the State is +0.7°.

PRECIPITATION.

The mean total precipitation for the State, as computed from observations of 61 stations, was 2.16 inches, which was 2.59 inches below normal. The greatest monthly precipitation was 4.61 inches, at Morris Plains, and the least, 0.22 inch, at Barnegat City. The greatest amount of precipitation in any 24 consecutive hours was 1.93 inches at Belvidere on the 27th.

The average for the Highlands was 3.29 inches; for the Red Sandstone Plain 3.24 inches; for the Southern Interior 0.96 inch; and for the Seacoast 1.10 inches.

The precipitation accumulated departure from the normal for the year 1943, to date, by sections, is: The Highlands, -3.52 inches; Red Sandstone Plain, -4.41 inches; Southern Interior, -7.52 inches; Sea Coast, -11.25 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 9, 11, 13, 14, 23, 26.

THUNDERSTORMS: 4, 5, 8, 10, 13, 14, 16.

HAIL: 10.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.12	21	29.60	16	13.6	33	sw.	10	83	73	81	75	0
Long Branch.....	30.13	21	29.57	16	10.4	27	e.	27	80	56	67	65	0
Trenton.....	30.14	21	29.58	16	7.7	21	s.	3	79	47	61	65	0

COMPARATIVE DATA FOR AUGUST.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snow/fall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	71.7	95	40	6.11	0	.....	.....	.....	.....
1886.....	69.5	96	42	2.81	0	.....	.....	.....	.....
1887.....	70.4	94	42	3.76	0	.....	.....	.....	.....
1888.....	72.5	98	41	6.13	0	.....	.....	.....	.....
1889.....	69.6	91	45	5.13	0	.....	.....	.....	.....
1890.....	71.5	99	40	4.90	0	11	8	15	8
1891.....	72.8	100	46	5.32	0	13	8	11	12
1892.....	73.4	99	46	3.63	0	9	12	13	6
1893.....	72.8	98	38	6.52	0	8	14	11	6
1894.....	70.9	97	44	2.58	0	7	13	12	6
1895.....	74.2	102	34	2.53	0	7	16	12	3
1896.....	73.6	105	39	1.83	0	7	17	10	4
1897.....	71.0	91	41	4.39	0	9	14	12	5
1898.....	74.8	98	42	5.36	0	10	12	12	7
1899.....	72.3	99	39	4.36	0	9	10	12	9
1900.....	76.3	104	41	2.68	0	10	15	11	5
1901.....	73.8	98	44	9.43	0	11	12	10	9
1902.....	70.1	93	40	3.91	0	9	15	13	3
1903.....	68.4	98	39	6.95	0	13	10	10	11
1904.....	70.8	92	37	6.62	0	9	15	10	6
1905.....	71.1	95	38	5.72	0	12	13	10	8
1906.....	74.6	97	42	5.95	0	13	10	11	10
1907.....	70.5	96	39	3.45	0	10	14	12	5
1908.....	70.6	103	36	5.05	0	10	11	10	10
1909.....	70.2	100	34	4.59	0	6	14	9	8
1910.....	70.4	92	36	3.78	0	10	9	10	12
1911.....	72.1	101	39	8.91	0	11	10	11	10
1912.....	70.0	95	35	3.42	0	10	12	13	6
1913.....	71.7	100	38	4.06	0	10	18	9	4
1914.....	73.3	98	46	3.15	0	9	13	12	6
1915.....	70.9	98	41	7.73	0	13	11	11	9
1916.....	73.2	100	40	1.34	0	6	20	7	4
1917.....	74.0	103	42	2.21	0	8	18	9	4
1918.....	74.4	108	40	1.85	0	7	18	7	6
1919.....	69.9	98	38	6.89	0	13	13	10	8
1920.....	72.3	94	42	6.10	0	17	8	11	12
1921.....	69.8	97	38	4.32	0	9	18	7	6
1922.....	71.2	96	39	4.03	0	12	13	9	9
1923.....	70.8	98	35	2.44	0	8	17	8	6
1924.....	71.9	102	38	4.40	0	8	18	8	5
1925.....	71.0	93	35	2.10	0	7	20	6	5
1926.....	72.8	101	38	6.58	0	14	11	9	11
1927.....	67.1	89	37	8.55	0	12	11	9	11
1928.....	74.5	99	45	6.72	0	13	12	8	11
1929.....	69.8	97	39	2.58	0	9	16	8	7
1930.....	71.1	101	34	3.32	0	6	16	9	6
1931.....	73.5	101	45	5.10	0	12	12	8	11
1932.....	73.5	99	44	2.75	0	7	20	7	4
1933.....	72.7	101	45	10.53	0	14	12	9	10
1934.....	69.8	100	33	3.61	0	10	14	8	9
1935.....	72.4	98	36	2.57	0	8	14	10	7
1936.....	74.2	101	44	4.14	0	10	14	9	8
1937.....	75.2	100	45	6.82	0	14	14	7	10
1938.....	75.4	100	41	3.09	0	8	18	8	5
1939.....	75.3	98	50	7.03	0	11	11	9	11
1940.....	69.4	95	32	5.96	0	12	10	9	12
1941.....	71.0	97	34	4.06	0	9	20	7	4
1942.....	71.3	98	35	8.24	0	11	13	8	10
1943.....	73.2	99	39	2.16	0	6	18	8	5
Period.....	72.0	108	32	4.75	0	10	13	10	8

Climatological Data for August, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days					Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, 0.1 in. or more	Clear	Partly cloudy	Cloudy		
Atlantic City.....	Atlantic	8	70	72.2	-0.3	88	15	59	19	0.44	-4.05	0.28	27	0	6	16	7	8	s.	U. S. Weather Bureau
Barneget City.....	Ocean	36	23	71.6		92	2	59	14	0.22		0.09	28	0	4				sw.	U. S. Coast Guard.
Belleplain.....	Cape May	49	49					43	20	0.89	-3.71	0.46	11	0	5	15	12	4	s.	Mrs. Edward C. Hoffman
Belmar.....	Monmouth	19	1							1.47		0.46	27	0	7				w.	City Water Dept.
Belvidere.....	Warren	289	51	73.6	+2.3	96	2	48	20	3.44	-1.13	1.93	27	0	11	13	11	7	sw.	Miss C. S. Hixson.
Berlin.....	Camden	70	2							0.30		0.30	28	0	1	29	2	0	ne.	Samuel H. McCulley.
Boonton.....	Morris	280	53	71.0	+0.5	92	1	46	20	3.87	-0.82	1.65	28	0	6	21	0	10	ne.	John Klue.
Bridgeton.....	Cumberland	30	60	76.8	+2.1	97	10	54	20	0.79	-3.88	0.40	14	0	5	27	0	4	sw.	Bennett K. Matlack
Brooklawn.....	Camden	30	2							0.40		0.28	8-9	0	2				sw.	C. D. Scott.
Burlington.....	Burlington	12	57	76.8	+2.5	96	3†	56	19†	1.51	-4.27	0.80	10	0	7	22	7	2	sw.	Public Service E. & G. Co.
Canoe Brook.....	Essex	180	13	70.8	+0.1	97	23	42	20	3.08	-2.58	1.40	27	0	5	21	4	7	nw.	N. J. Water Policy Comm.
Cape May.....	Cape May	17	55	71.4	-2.0	87	5	59	20	1.08	-3.18	0.88	10	0	6	19	4	8	sw.	Naval Air Station.
Charlotteburg II.....	Passaic	760	51	69.2	+0.9	91	2	40	16†	2.62	-1.88	1.38	27-28	0	8	11	4	16	w.	Newark Water Dept.
Chatham.....	Morris	185	39							3.37	-1.28	1.44	28	0	4	20	9	2	sw.	Paul Molitor, Sr.
Chatsworth.....	Burlington	90	2	74.6*		98	14	45	20	0.55		0.33	27-28	0	3	18	11	2	sw.	Alfred L. Stevenson.
Clayton.....	Gloucester	120	30	75.1	+1.8	95	2†	50	20	0.57	-4.25	0.40	13	0	3	22	1	8	w.	Worthy Hitt.
Clinton.....	Hunterdon	300	0							4.38		1.62	27-28	0	8	29	0	2	w.	L. W. Klockner.
Culvers Lake†.....	Sussex	760	42							3.17	-1.48	1.58	27	0	7				sw.	L. S. Depue.
Dover.....	Morris	600	59	69.8	-0.4	89	2	47	20†	3.66	-0.84	1.75	27	0	6	8	13	10	sw.	William C. Harris
Egg Harbor City.....	Atlantic	63	21							0.66	-3.67	0.21	15	0	4				ne.	Chas. E. Hall.
Elizabeth.....	Union	34	64			99	2			2.68	-1.65	1.38	27-28	0	6	24	3	4	ne.	Union County Park Comm.
Flemington.....	Hunterdon	140	57	75.0	+2.2	97	23	51	19†	3.55	-0.97	1.48	27-28	0	7	21	6	4	w.	Hiram E. Deats
Freehold.....	Monmouth	194	39	73.6	+0.6	94	2	50	20	2.37	-2.26	0.89	10	0	5	23	8	0	w.	Moreau Plant Co.
Hammoncton.....	Atlantic	95	37	74.2	0.0	95	10†	46	20	0.50	-4.13	0.28	27-28	0	6	26	1	4	sw.	J. G. Wilson.
Hightstown.....	Mercer	110	50	73.6	+1.4	93	2†	49	19†	2.14	-2.88	0.95	27	0	6	18	10	3	sw.	James R. Pickering.
Indian Mills II, 2 mi. W.....	Burlington	100	54	74.7	+2.1	97	25	45	20	0.57	-4.96	0.29	30	0	6	16	12	3	sw.	Edward Entwistle.
Jersey City.....	Hudson	81	45					55	21	3.35	-0.98	0.92	28	0	7	24	3	4	nw.	J. C. Water Dept.
Lakewood.....	Ocean	54	39	73.8	+2.3	94	2	50	20	1.14	-4.05	0.82	10	0	4	13	13	5	sw.	R. W. Holman.
Lambertville.....	Hunterdon	75	56	73.8	+1.5	93	2	50	20	2.63	-2.17	1.19	22	0	16	6	13	2	sw.	Mabel Wollaston.
Layton II, 3 miles NW.....	Sussex	480	42	69.9	+1.2	93	14†	40	20	2.39	-1.70	1.73	27-28	0	5	17	5	9	s.	A. M. Depue.
Little Falls.....	Passaic	157	40	73.2	+1.1	95	2	49	20	3.64	-1.32	1.59	27-28	0	5	16	13	2	w.	Passaic Valley Water Co.
Long Branch.....	Monmouth	34	35	72.6	+1.1	92	14	52	20	1.75	-3.73	0.66	10	0	6	14	11	6	sw.	Storm Warn. Display Sta.
Long Valley.....	Morris	660	13	68.6		92	2	42	20	4.34	-1.00	1.85	27	0	7	23	6	4	w.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington	90	1							0.60		0.41	27-28	0	7	24	3	4	sw.	David Griscom.
Millville.....	Cumberland	60	2							0.85		0.59	13-14	0	4	14	12	5	sw.	Paul Ritchie.
Moorestown.....	Burlington	62	80	74.2	+1.5	95	14	49	20	0.47	-4.90	0.21	27-28	0	4	19	9	3	sw.	Japanese Beetle Laboratory
Morris Plains.....	Morris	500	2							4.61		1.42	27	0	8	23	5	3	sw.	James C. Long.
Newark.....	Essex	10	89	74.5	+1.5	97	2	55	19†	3.89	-0.66	1.73	27-28	0	7	11	15	5	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex	86	89	74.2	+2.0	92	2†	51	18	2.52	-2.88	1.29	27	0	7	18	7	6	se.	N. J. Experiment Station
New Milford II.....	Bergen	12	25							2.83	-1.53	1.10	28	0	8				sw.	Hackensack Water Co.
Newton.....	Sussex	769	60	71.4 ^b	+3.7	94	2	47	19†	2.91	-1.44	1.60	27	0	8	10	13	8	sw.	Irving J. Kern.
Orange II.....	Essex	140	3							2.81		1.32	27-28	0	7				sw.	County Engineer.
Paterson.....	Passaic	95	72	71.8	-0.4	95	2	50	29	3.72	-0.91	1.50	27-28	0	9	11	14	6	sw.	J. W. Cook.
Pemberton.....	Burlington	55	14	75.4	+0.1	95	23	49	20	0.64	-4.58	0.32	10	0	5	18	9	4	sw.	Charles S. Beckwith.
Phillipsburg.....	Warren	182	56	72.0	+0.2	97	8	47	20	4.05	-0.35	1.70	27-28	0	8	15	11	5	sw.	Town Engineer.
Plainfield.....	Union	120	55	74.6	+2.8	95	2	53	19†	3.37	-1.73	1.60	27-28	0	7	13	12	6	sw.	S. K. Pearson.
Plainsboro.....	Middlesex	110	1							2.21		0.98	27-28	0	5				sw.	Walker-Gordon Lab.
Pleasantville II.....	Atlantic	8	345	71.7	0.0	96	10	46	20	0.48	-4.18	0.32	28	0	3	22	6	3	s.	N. J. Water Policy Comm.
Rahway.....	Union	20	3							2.62		1.37	27-28	0	6	7	19	5	ne.	Louis Fontenelli.
Ridgefield.....	Bergen	80	26	73.2	+1.4	95	2	49	20	3.49	-1.42	1.29	27-28	0	6	12	14	5	s.	George P. Kirsten.
Runyon II.....	Middlesex	18	20	76.0	+4.3	96	3	41	19	2.09	-2.79	1.15	27-28	0	6	24	7	0	w.	N. J. Water Policy Comm.
Sandy Hook.....	Monmouth	15	45	75.2	+2.7	91	2†	58	28	1.66	-3.32	1.09	27-28	0	5	16	11	4	sw.	U. S. Coast Guard.
Somerville.....	Somerset	385	60	73.4	+1.1	95	2	48	18	3.01	-1.91	1.41	27-28	0	6	23	4	4	w.	Norbert Lark.
Sussex.....	Sussex	450	48	70.6	+0.6	93	2	39	7	2.69	-1.31	1.66	27-28	0	8	12	7	12	sw.	Marshall Hunt.
Toms River.....	Ocean	33	22							0.36	-5.25	0.15	27	0	4				sw.	Robt. F. Snyder.
Trenton.....	Mercer	56	71	74.8	+1.8	93	2	56	19	2.81	-1.94	1.09	13-14	0	8	11	13	7	s.	U. S. Weather Bureau
Trenton No. 2.....	Mercer	105	13	74.7		93	2†	53	20	2.73		1.21	13-14	0	7				sw.	Edward H. Ristow.
Truckerton.....	Ocean	23	50	74.2	+1.5	99	10	50	20	0.68	-4.62	0.30	27-28	0	4	19	5	7	sw.	John H. Brown.
Vineland.....	Cumberland	110	63							0.69	-3.80	0.56	13-14	0	4	20	8	3	w.	Robert Jones.
Westfield.....	Union	145	3							2.85		1.40	28	0	4	23	6	2	sw.	Town Engineer.
Woodcliff Lake II.....	Bergen	103	25							3.10	-1.05	1.24	28	0	6				sw.	Hackensack Water Co.
Woodstown.....	Salem	16	8							0.70		0.70	13-14	0	1				w.	Geo. S. Keen
New York, N. Y.....		10	73	74.5	+1.4	91	2	58	28	2.95	-1.38	1.21	27-28	0	7	13	11	7	s.	U. S. Weather Bureau
Philadelphia, Pa.....		10	73	76.4	+3.1	95	12	57	20	0.65	-3.97	0.16	13†	0	7	9	14	8	sw.	U. S. Weather Bureau.
For the State.....				73.2	+1.2	99	2†	39	7	2.16	-2.59	1.93	27	0	6	18	8	5	sw.	

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. † Received too late to be included in the means. T, precipitation less than 0.01 inch rain or melted snow

Reference letters, A, B, C, etc., appearing in the table indicate number of days missing; for example, B represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated

‡ Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia-10-15-43-925

Daily Precipitation for August, 1943

Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic City ¹	Coast										T.	T.		.01	.10			.03	.01									T.	.28	T.		.01	0.44		
Barnegat City ⁴	Coast								T.		T.				.04			.02											.07	.09			0.22		
Belleplain	Tuckahoe											.46			.12					.10									.12	.09			0.89		
Belmar ²	Coast	.17	T.		.02	.01					.35	T.		T.	.35														.46	.11	T.		1.47		
Belvidere	Delaware	.02			.14				.24		.12			.12	.50				.04										1.93	.27	.02	.04	3.44		
Berlin	Mullica											T.						T.											.30				0.30		
Boonton ³	Passaic				.62					.05	.37	T.			1.16															1.63		.04	3.87		
Bridgeton	Delaware										.14				.40														.07	.03	T.		0.79		
Brooklawn	do				.12						.28			T.															T.				0.40		
Burlington	Delaware				.08						.80				.09	.07													.23	.12		.12	1.51		
Cape Brook ³	Passaic				.43					.01	.62				.62															1.40			3.08		
Cape May ²¹	Coast				.05				.36	.09	.88	.01		.04	.01			T.	T.								10	T.	.04	T.		1.08			
Charlotteburg	Passaic										.09			.03	.62														1.05	.33			2.62		
Chatham ³	do				.39						.64	T.			.90															1.41			3.37		
Chatsworth	Coast															.22													.23	.10			0.55		
Clayton	Delaware													.40	T.															.05	.12		0.57		
Clinton	Raritan				.42				.17		.78				11.04														1.43	.19		.24	4.38		
Culvers Lake	do				.08		.68	.50						.18															1.58	.11		.04	3.17		
Dover	Passaic				.38				.08		.50			*	.95														1.75				3.66		
Egg Harbor City ²	Mullica									.05			.20					.21												.20			0.66		
Elizabeth	Coast				.11				T.		.77			.17	.25		T.												1.24	.14			2.68		
Flemington	Raritan				.23				T.		1.29			.06	.41														1.08	.40		.08	3.55		
Freehold	do				.55						.89			.23	.06														.55	.15			2.87		
Hammonton	Mullica										.04			.04	.06	.08													.15	.13			0.50		
Hightstown	Raritan		T.	.31					T.		.53	T.		.02	.33			T.	T.										.69	.26			2.14		
Indian Mills	Mullica				.04						.02	T.		T.	.04			T.	T.										.11	.07		.29	0.57		
Jersey City	Coast				.23	.33				.03	T.	.80			.75	.29															.92		3.55		
Lakewood	Metcunk				T.						.82				.10															.12	.10		1.14		
Lambertville	Delaware								.25		.07				.34														1.19	T.		.34	2.63		
Layton	do				.44						.13				.49														1.39	.34		.04	2.39		
Little Falls ³	Passaic				.50				.01		.39				1.15															1.59			3.64		
Long Branch ²¹	Coast				.04	.37					.66				.14					T.									.42	.12			1.75		
Long Valley ³	Raritan				1.05					.24	.30			.77				.06												1.85			.07	4.34	
Marlton	Delaware				.11						.03			.03				T.						.01					.25	.16		.01	0.60		
Millville ²¹	Maurice										.16				.11	.48													.10				0.85		
Moorstown ³	Delaware				.16								T.		.06															.24	.01		0.47		
Morris Plains	Passaic			.09		.82				T.	.41	.01		1.00	.43														1.42	.43			4.61		
Newark ¹	Coast				.14	.08			T.		1.20			.52	.22		T.												1.51	.22			3.89		
New Brunswick	Raritan		T.	.19	T.				.02		.59	T.		.02	.17														1.29	.24			2.52		
New Milford ²¹	Hackensack				.50						.32			.48	.26															1.10	.04	.04	.09	2.83	
Newton	Delaware		T.	.21		.37					.06			.27	.24	T.													1.60	.14	.02		2.91		
Orange ²¹	Passaic			.20	.04						.48			.51	.26														1.28	.04			2.81		
Paterson ²	Passaic			.66	.07				.01		.25			.74	.44														1.42	.08		.05	3.72		
Pemberton	Delaware				.13					T.	.32			T.	T.		T.												.05	.13		.01	0.64		
Phillipsburg	do	T.			.05	.29			T.		.88			.16	.85			T.		T.									1.60	.10	T.	.12	4.05		
Plainfield	Raritan				T.	.26			.03		1.08			.04	.36		T.												1.55	.05			3.37		
Plainsboro	Raritan					.58			.39						.26															.82	.16			2.21	
Pleasantville ³	Coast														.13			.03												.32			T.	0.48	
Rahway ²¹	Rahway				.05						.95			.10	.15															1.30	.07			2.62	
Ridgefield ²	Hackensack		T.	.20				T.			1.02			.79	.19															1.00	.29			3.49	
Rumson	Coast				.26						.45	.05			.18															.93	.22			2.09	
Sandy Hook ⁴¹	Coast		.10	T.							.41			T.	.15			T.				T.								.79	.21			1.66	
Somerville	Raritan				.28			.11			.89		T.		.29															1.18	.23		T.	3.01	
Sussex	Hudson				.03			.22			.06			.13	.57														1.42	.24	T.	.02	2.69		
Toms River	Coast										.14				.02															.15	.05			0.36	
Trenton ¹¹	Delaware			.43	.01				.27		.33			.11	.98			T.				T.	T.							.60	.08		T.	2.81	
Trenton No. 2 ²	Delaware			.27				.21			.24			.07	1.14															.64	.16			2.73	
Tuckerton	Coast														.20			.18												.22	.08			0.68	
Vineland	Maurice					.01						T.			.15	.41															.12			0.69	
Westfield ³¹	Rahway				.24						.78				.43																1.40			2.85	
Woodcliff Lake ²¹	Hackensack				.04				.69	.11	.03				.99																1.24		.01	3.10	
Woodstown	Delaware														.70																			0.70	
New York, N. Y. ¹¹	Coast				.09	.02				T.		1.06	T.		.39	.18														1.18	.03			2.95	
Phila., Pa. ¹¹	Delaware			.08	T.				T.	T.	.08				.16	T.		T.	T.				.01								.16	T.	.14	.02	0.65

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ⁴ Precipitation is from 1:30 a. m. to 1:30 a. m. ² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. ⁴ Precipitation measured with recording gage. * Included in the next following measurement. T. Trace or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time. Amounts in italics are estimated.

Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

Canoe Brook ³	Evaporation....	.160	.176	.144	.110	.176	.160	.144	.042	.172	.080	.144	.128	.044	.096	.224	.080	.160	.128	.144	.144	.096	.112	.144	.048	.192	.160	*	.040	.064	.096	.096	3.704	
	Wind movement.	0	2	3	2	2	3	1	1	0	1	1	1	1	3	5	0	2	2	2	2	0	1	1	0	1	0	0	0	2	0	0	40	
Pleasantville ³ ...	Evaporation....	.352	.256	.288	.256	.208	.256	.224	.240	.240	.224	.240	.192	.082	.160	.384	.158	.288	.224	.272	.240	.224	.208	.224	.192	.256	.096	.032	.064	.160	.128	.192	6.560	
	Wind movement.	14	47	53	57	13	24	28	21	36	32	29	60	50	55	6	33	29	19	38	23	32	13	33	39	20	35	18	38	11	11	28	946	
Runyon.....	Evaporation....	.270	.290	.290	.290	.290	.290	.290	.290	.210	.290	.260	.150	.210	.240	.240	.240	.240	.210	.210	.210	.210	.210	.210	.210	.210	.210	.030	.100	.160	...	...	7.002
	Wind movement.	8	9	11	19	12	12	13	8	7	6	5	3	14	14	20	240	9	6	6	6	3	3	4	8	8	9	10	11	10	10	5	5	277

Note: Evaporation determined by measuring amount returned to pan to maintain standard level, less precipitation.
record. ³ Observations taken in morning, and entered on preceding day. ** Pan overflowed. * Measurement included in next following

Daily Temperatures for August, 1943

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum.....	82	82	77	75	86	79	76	81	77	82	76	80	75	72	88	78	82	76	78	75	76	76	76	81	82	72	69	73	76	83	78.0	
	Minimum.....	72	71	67	65	67	63	64	70	68	68	66	68	68	65	68	64	61	59	52	63	64	68	68	70	71	69	63	65	65	67	66.3	
Barnegat City.....	Maximum.....	58	92	78	77	83	80	75	86	75	78	80	88	75	89	81	86	81	74	74	75	77	80	81	80	82	72	71	73	76	87	79.7	
	Minimum.....	69	67	65	61	60	61	60	65	62	65	65	67	68	59	60	64	60	59	59	61	64	64	62	69	70	69	63	63	64	64	63.6	
Belleplain.....	Maximum.....	58	63	70	69	75	54	50	56	62	65	66	62	63	71	58	54	66	54	51	43	48	59	53	55	61	65	55	48	58	53	59.0	
	Minimum.....	58	63	70	69	75	54	50	56	62	65	66	62	63	71	58	54	66	54	51	43	48	59	53	55	61	65	55	48	58	53	59.0	
Belvidere.....	Maximum.....	92	96	95	86	84	86	90	87	91	94	92	90	84	93	88	80	81	81	82	86	83	89	95	91	95	91	74	75	75	83	89	87.0
	Minimum.....	64	62	67	72	69	54	53	62	59	68	63	68	70	70	60	55	60	53	49	48	55	59	58	61	63	60	57	56	51	61	55	60.1
Boonton§§.....	Maximum.....	92	91	90	84	80	83	82	84	90	89	88	85	80	89	82	79	78	77	78	82	81	83	89	86	90	88	62	74	75	81	86	83.2
	Minimum.....	60	60	63	69	70	58	53	57	53	63	63	62	65	66	69	54	62	54	52	46	60	57	57	58	61	63	59	56	47	54	55	58.9
Bridgeton.....	Maximum.....	92	95	95	93	89	86	87	93	93	97	89	96	85	91	90	84	80	80	87	90	89	92	94	94	94	83	70	75	82	93	88.7	
	Minimum.....	66	67	71	72	76	61	61	65	67	70	70	67	73	74	63	62	71	58	59	54	59	59	60	63	66	68	70	60	55	63	60	64.8
Burlington.....	Maximum.....	95	92	96	93	87	87	85	85	91	91	91	92	82	95	92	88	85	80	81	88	86	91	96	92	96	95	86	73	83	85	90	88.7
	Minimum.....	65	67	64	70	65	68	65	69	67	71	69	69	69	74	73	60	70	60	56	56	59	62	60	63	68	69	64	58	56	63	67	65.0
Canoe Brook§§.....	Maximum.....	90	94	91	85	81	80	82	87	85	88	85	85	81	92	82	82	82	74	75	82	85	91	97	89	93	87	71	80	80	85	93	85.0
	Minimum.....	59	59	68	70	70	51	47	53	56	63	66	63	65	72	54	50	49	44	42	48	55	54	56	59	56	57	56	49	55	52	56.7	
Cape May*.....	Maximum.....	78	77	76	75	87	82	79	80	82	80	76	79	78	74	85	75	85	78	74	80	79	78	77	74	83	77	71	70	74	80	80	76.0
	Minimum.....	69	62	67	67	67	66	64	66	66	67	66	65	64	65	65	63	64	65	69	59	61	62	65	65	66	67	70	62	61	67	66	64.8
Charlotteburg.....	Maximum.....	90	91	89	85	82	82	85	85	86	87	84	87	81	90	90	80	78	77	73	81	86	88	89	89	80	85	74	73	83	85	84.4	
	Minimum.....	52	53	67	70	66	51	44	51	57	65	65	62	50	63	53	40	58	50	46	40	47	50	53	55	60	58	57	52	42	50	55	54.0
Chatsworth.....	Maximum.....	92	96	94	95	95	86	88	95	90	95	92	93	85	98	94	92	87	81	81	84	85	89	93	95	93	90	72	73	83	89	89.2*	
	Minimum.....	59	59	65	68	70	62	64	58	61	65	66	59	72	59	51	66	51	48	45	53	54	60	64	60	60	66	57	51	....	54	59.9*	
Clayton.....	Maximum.....	92	95	95	92	90	87	88	94	92	95	92	94	89	90	89	89	86	81	82	85	85	88	93	94	94	93	84	75	75	83	91	88.8
	Minimum.....	64	64	68	70	75	60	59	62	64	68	60	68	60	64	63	58	69	55	54	50	55	57	57	60	63	65	58	59	53	62	57	61.4
Dover.....	Maximum.....	88	89	88	82	79	81	79	83	84	86	85	82	79	87	80	78	77	75	77	72	80	86	85	86	84	70	70	76	77	82	80.7	
	Minimum.....	61	60	69	71	63	55	51	60	59	65	66	60	67	69	57	53	60	54	49	47	51	59	57	61	63	61	55	55	47	59	58	58.8
Elizabeth.....	Maximum.....	93	99	96	90	89	89	86	92	93	93	85	86	84	94	88	86	86	81	83	83	81	85	90	92	94	92	83	76	77	83	89	87.7
	Minimum.....	94	96	95	90	85	85	90	91	94	87	94	92	85	95	85	85	83	83	80	85	86	91	97	93	95	89	78	73	77	86	91	88.1
Flemington.....	Maximum.....	64	62	67	71	72	59	56	62	65	67	70	65	70	72	65	57	64	56	51	51	55	59	57	60	66	63	58	57	53	62	50	61.8
	Minimum.....	92	94	92	90	87	85	85	89	89	91	86	87	93	92	85	86	83	78	79	81	78	83	89	92	92	92	80	71	74	81	88	85.9
Freehold.....	Maximum.....	65	68	66	70	72	56	55	65	64	67	65	64	69	61	58	61	67	54	52	50	55	58	59	60	65	66	61	51	53	63	61	61.3
	Minimum.....	91	93	91	93	91	88	87	94	93	95	90	94	82	95	88	91	88	81	82	86	85	94	92	94	95	93	79	70	78	85	91	88.7
Hammonton.....	Maximum.....	63	63	66	67	62	57	52	61	67	63	66	61	62	71	57	60	66	53	51	46	52	61	54	58	60	64	56	49	57	58	59.6	
	Minimum.....	92	93	92	87	85	85	84	90	90	91	89	90	84	92	85	87	83	78	81	84	83	88	93	91	91	91	77	73	75	83	88	86.3
Hightstown.....	Maximum.....	65	64	68	69	71	56	53	62	61	67	67	63	69	72	60	57	66	54	49	49	55	58	57	61	64	66	61	56	52	61	59	61.0
	Minimum.....	92	94	93	91	90	89	88	94	93	95	94	93	83	95	89	90	87	81	84	89	87	89	96	93	97	91	78	74	75	83	89	88.9
Indian Mills.....	Maximum.....	64	61	69	70	75	53	51	62	62	68	69	62	69	75	59	54	68	50	48	45	53	59	55	60	61	65	66	58	49	59	57	60.5
	Minimum.....	66	66	70	72	72	66	61	62	69	65	69	65	65	65	73	65	66	66	63	57	55	61	62	61	74	69	68	60	57	56	64	64.8
Lakewood.....	Maximum.....	92	94	93	91	86	86	85	90	87	90	88	85	81	92	87	88	85	79	80	81	84	87	92	89	88	79	72	75	80	90	85.6	
	Minimum.....	64	65	70	74	75	58	54	63	63	68	67	64	71	74	61	56	68	54	51	50	55	60	58	59	64	67	65	58	51	58	60	62.1
Lambertville.....	Maximum.....	89	93	92	88	84	85	83	87	88	91	89	90	88	90	86	83	80	77	79	82	82	85	91	90	89	84	74	75	80	85	85.5	
	Minimum.....	64	64	70	70	71	57	55	61	62	69	68	64	70	71	61	57	64	72	51	50	54	58	58	61	64	63	59	56	57	62	58	62.0
Layton.....	Maximum.....	91	91	91	83	79	81	84	84	89	89	89	88	83	93	82	79	79	79	80	85	83	85	82	90	93	88	67	72	72	82	87	83.9
	Minimum.....	59	60	68	72	66	49	42	53	55	65	63	55	65	67	53	51	58	51	43	40	45	51	65	56	57	56	52	54	49	60	55	55.9
Little Falls§§.....	Maximum.....	93	95	92	86	86	86	85	87	91	91	88	86	81	92	85	81	82	80	81	82	86	91	90	93	89	82	86	77	84	86	85.7	
	Minimum.....	62	62	71	72	71	60	52	60	59	68	67	65	63	72	59	58	61	55	50	49	51	58	59	60	63	61	56	50	62	57	60.6	
Long Branch*.....	Maximum.....	86	90	90	89	83	85	77	86	80	88	76	81	85	92	85	84	83	79	76	77	75	77	80	87	83	86	70	73	75	88	81.9	
	Minimum.....	66	65	70	72	67	59	60	63	65	68	66	65	72	74	64	59	64	57	53	52	58	59	60	65	66	67	63	58	55	66	62	63.2
Long Valley§§.....	Maximum.....	90	92	91	84	82	83	81	86	87	90	88	85	78	89	84	78	77	79	81	78	84	89	87	90	88	63	71	75	81	85	83.0	
	Minimum.....	57	53	60	65	67	52	50	55	55																							

CLIMATOLOGICAL DATA

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NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

SEPTEMBER, 1943.

No. 9

GENERAL SUMMARY.

Temperatures at most stations averaged slightly below normal. The first two days of the month were hot with readings in the nineties. The period, 5th to 7th inclusive was also unusually warm. There were two very cool periods, the first being the 18th to 20th, and the second, the 26th to 28th, inclusive. There was light frost quite generally on several mornings, and killing frost was reported on the 26th in the extreme north. Frosts were frequent in the cranberry bogs after the 10th, and a severe freeze occurred in the bogs on the morning of the 19th which did considerable damage due to a scarcity of water for flooding.

Rainfall was deficient at practically all stations in the State. It was unevenly distributed. The northwestern section and the southern interior were extremely dry while the northeastern and coastal areas had more rain. The principal rains were on the 7th, 14-15th, and 30th. This was the fourth successive month with sub-normal precipitation, and the average deficiency for the State to the end of August was 7.40 inches. As a result of dry weather most crops matured early with yields considerably lessened. This was especially true of the lima bean and vegetable crops of South Jersey. Cutting of field corn for shock and ensilage as well as for current feeding began early in the month. Streams and water supplies were very low during the month with wells going dry in some localities. A tropical storm affected coastal areas on the 30th, causing gale winds and abnormally high tides, along with moderate rainfall.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 41 stations, was 65.0°, which was 0.8° below normal. The highest temperature was 98° at Hammonton and Pemberton on the 7th, and the lowest, 26°, at Charlotteburg on the 27th. The highest monthly mean temperature was 67.8° at Burlington, and the lowest, 60.0°, at Long Valley.

The temperature departure from the normal for the year 1943 to date for the State is +0.5°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 61 stations, was 1.85 inches, which was 1.94 inches below normal. The greatest monthly precipitation was 4.76 inches, at Egg Harbor City, and the least, 0.23 inches at Brooklawn. The greatest amount of precipitation in any 24 consecutive hours was 2.48 inches at Westfield on the 7th.

The average for the Highlands was 1.07 inches; for the Red Sandstone Plain, 2.01 inches; for the Southern Interior, 1.65 inches; and for the Sea Coast, 2.86 inches.

The precipitation accumulated departure from the normal for the year 1943 to date, by sections, is: the Highlands, -6.26 inches; Red Sandstone Plain, -6.06 inches; Southern Interior, -9.39 inches; Sea Coast, -11.96 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 1, 7, 16, 22, 23, 30.

THUNDERSTORMS: 2, 7, 15.

HEAVY FROST: 26, 27, 28.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.48	18	29.81	7	15.7	61	e.	30	84	69	77	60	69
Long Branch.....	30.48	18	29.80	7	10.4	49	ne.	30	80	52	66	64	76
Trenton.....	30.48	18	29.79	7	7.8	28	nw.	7	81	49	64	65	88

COMPARATIVE DATA FOR SEPTEMBER.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	64.2	93	38	0.83	0	.....	.....	.....	.....
1886.....	66.9	95	36	1.13	0	.....	.....	.....	.....
1887.....	61.6	90	30	3.66	0	7	.....	.....	.....
1888.....	63.1	84	29	7.09	0	12	.....	.....	.....
1889.....	64.8	90	34	8.36	0	14	.....	.....	.....
1890.....	64.4	91	33	4.75	0	10	10	10	10
1891.....	68.7	95	38	2.46	0	6	16	9	5
1892.....	64.2	90	33	1.81	0	6	15	11	4
1893.....	62.7	90	31	3.20	0	8	12	10	8
1894.....	68.8	97	31	7.46	0	8	10	10	10
1895.....	69.7	109	29	1.07	0	5	17	10	3
1896.....	65.1	95	30	4.37	0	5	19	7	4
1897.....	65.5	99	30	1.65	0	5	19	7	4
1898.....	68.6	100	31	2.00	0	6	17	8	5
1899.....	64.4	93	30	5.88	0	9	15	9	6
1900.....	69.9	98	32	2.86	0	6	14	10	6
1901.....	66.8	94	29	3.38	0	10	15	9	6
1902.....	64.6	93	30	5.65	0	13	11	7	12
1903.....	65.0	92	29	3.34	0	7	17	8	5
1904.....	64.8	93	23	4.79	0	7	14	10	6
1905.....	65.4	90	28	5.23	0	8	16	7	7
1906.....	68.9	94	33	2.19	0	7	15	9	6
1907.....	67.1	92	31	8.08	0	14	10	8	12
1908.....	65.7	90	29	2.09	0	3	11	10	9
1909.....	64.5	89	30	3.30	0	8	11	10	9
1910.....	67.3	97	32	2.39	0	6	12	10	8
1911.....	66.4	90	30	2.88	0	9	10	12	8
1912.....	65.9	87	28	4.47	0	10	12	7	11
1913.....	64.4	96	27	3.87	0	9	13	8	9
1914.....	64.0	99	24	0.37	0	3	21	6	3
1915.....	68.5	97	30	2.08	0	5	17	9	4
1916.....	65.2	98	31	2.84	0	6	20	7	3
1917.....	61.5	87	27	2.74	0	6	16	7	7
1918.....	62.2	90	29	3.84	0	9	14	8	8
1919.....	65.8	96	32	3.26	0	8	16	6	8
1920.....	66.8	90	30	3.87	0	7	17	8	5
1921.....	70.2	99	36	2.35	0	8	15	8	7
1922.....	66.7	95	27	2.26	0	4	19	5	6
1923.....	67.0	90	28	3.78	0	7	14	8	8
1924.....	62.2	99	29	5.42	0	10	13	8	9
1925.....	67.8	96	25	2.92	0	7	11	11	8
1926.....	64.5	93	32	4.18	0	10	14	6	10
1927.....	65.6	97	29	2.66	0	5	19	6	5
1928.....	62.6	90	29	4.52	0	10	12	8	10
1929.....	67.0	100	28	4.74	0	8	14	7	9
1930.....	69.4	95	32	2.14	0	8	16	9	5
1931.....	70.5	100	34	1.98	0	6	19	6	5
1932.....	66.4	100	27	2.29	0	7	16	8	6
1933.....	68.0	93	38	6.07	0	10	12	9	9
1934.....	67.3	91	35	9.00	0	13	10	7	13
1935.....	63.2	89	27	6.12	0	8	15	7	8
1936.....	66.9	94	28	4.30	0	8	12	8	10
1937.....	63.4	98	29	2.63	0	6	19	5	6
1938.....	63.6	95	30	9.67	0	13	12	7	11
1939.....	66.5	98	31	1.49	0	8	15	9	6
1940.....	63.5	93	25	4.41	0	5	17	6	7
1941.....	67.5	98	26	0.28	0	2	21	6	8
1942.....	66.1	96	25	4.55	0	8	16	5	9
1943.....	65.0	98	26	1.85	0	6	15	7	8
Period.....	65.8	109	23	3.79	0	8	15	8	7

Climatological Data for September, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	70	65.8	-1.0	83	23	45	26	3.61	+0.96	1.61	30	0	11	12	5	13	s.	U. S. Weather Bureau.
Barneget City.....	Ocean.....	36	23	66.1		84	1†	48	18†	1.56		1.05	30	0	9					U. S. Coast Guard.
Belleplain.....	Cape May.....	49	49					30	19	1.90	-1.48	0.85	30	0	7	11	12	7	s.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	1							3.51		1.22	30	0	12				w.	City Water Dept.
Belvidere.....	Warren.....	289	51	64.8	-0.3	94	1†	35	27	0.47	-3.27	0.20	15	0	4	19	5	6		Miss C. S. Hixson.
Berlin.....	Camden.....	70	2							1.15		0.60	30	0	4	26	3	1		Samuel H. McCulley.
Boonton.....	Morris.....	280	53	62.1	-1.4	90	6†	34	27	2.19	-1.66	2.01	15	0	4	16	2	12	ne.	John Kline.
Bridgeton.....	Cumberland.....	30	60	67.5	-0.8	96	7	41	27	2.15	-1.16	0.90	30	0	8	17	6	7	ne.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	2							0.23		0.11	24	0	3					C. D. Scott.
Burlington.....	Burlington.....	12	57	67.8	+0.3	96	6†	40	19	0.48	-3.08	0.40	30	0	2	19	7	4	sw.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	13	65.6	+1.8	96	2	32	27	2.45	-2.40	1.47	14	0	7	15	7	8	ne.	N. J. Water Policy Comm.
Cape May.....	Cape May.....	17	55	66.7	-2.3	85	2	49	18†	2.12	-0.88	0.60	21	0	8	11	5	14	sw.	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	51	62.4	+0.1	90	1†	26	27	1.04	-3.11	0.75	14-15	0	4	9	10	11	w.	Newark Water Dept.
Chatham.....	Morris.....	185	39							2.51	-1.71	1.75	15	0	5	16	9	5		Paul Molitor, Sr.
Chatsworth.....	Burlington.....	90	2	65.4		97	7	32	19	1.08		0.40	30	0	7	12	11	7	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	30	66.5	-0.5	97	7	36	19	1.10	-2.38	0.40	30	0	6	12	11	7	n.	Worthy Hitt.
Clinton.....	Hunterdon.....	300	0							0.48		0.34	15	0	4	26	1	3	w.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	42							1.25	-2.77	0.96	7	0	2					L. S. Dupue.
Dover.....	Morris.....	600	59	61.4	-1.1	87	1	34	27	1.72	-2.36	0.75	7	0	4	9	10	11		William C. Harris.
Egg Harbor City.....	Atlantic.....	63	21							4.76	+0.48	2.00	7	0	7	20	3	7		Chas. E. Hall.
Elizabeth.....	Union.....	34	64	67.6	+0.7	93	1†	37	27	3.27	-0.34	1.51	15	0	8	18	5	7	ne.	Union County Park Comm.
Flemington.....	Hunterdon.....	140	57	66.5	-0.2	96	6	37	27	0.86	-2.78	0.54	14-15	0	4	20	3	7	n.	Hiram E. Deats.
Erehold.....	Monmouth.....	194	39	65.0	-1.1	93	1†	38	19	1.24	-3.14	0.48	30	0	7	17	7	6	n.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	37	65.8	-1.2	98	7	31	19	1.57	-2.64	0.49	30	0	10	20	4	6	n.	J. G. Wilson.
Hightstown.....	Mercer.....	110	50	65.2	-1.3	96	7	36	19	1.10	-2.11	0.40	30	0	8	13	10	7	nw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	54	65.6	-0.8	96	1†	30	19	1.02	-2.47	0.59	30	0	7	13	10	7	n.	Edward Entwistle.
Jersey City.....	Hudson.....	81	45					44	19	1.63	-1.77	0.74	16	0	9	15	13	2	nw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	39	65.6	+0.4	95	1†	38	19	2.41	-0.63	0.75	30	0	7	11	8	11	sw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	56	65.4	-0.4	92	1	36	27	0.91	-2.45	0.60	15	0	3	19	7	4	sw.	Mabel Wollaston.
Layton††, 3 miles NW.....	Sussex.....	480	42	61.0	+1.5	91	1†	27	26	0.41	-3.45	0.24	7	0	3	19	3	8	sw.	A. M. Dupue.
Little Falls.....	Passaic.....	157	40	64.3	-1.0	92	1	36	27	2.11	-1.57	1.11	7	0	6	13	10	7	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	35	65.4	-0.5	92	1	43	19†	3.23	+0.04	1.43	14-15	0	11	11	6	13	ne.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	13	60.0		90	2	29	27	0.77	-3.80	0.48	15	0	3	22	5	3	w.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	1							0.51		0.22	30	0	7	15	8	7	sw.	David Griscom.
Millville.....	Cumberland.....	60	2							2.06		0.96	30	0	9	10	14	6		Paul Ritchie.
Moorestown.....	Burlington.....	62	80	65.2	-1.0	95	1†	35	19	0.30	-3.23	0.11	14†	0	4	10	9	11	ne.	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	2							2.17		1.67	15	0	5	21	4	5		James C. Long.
Newark.....	Essex.....	10	89	65.7	-0.7	93	1	42	27	2.65	-1.04	1.31	14-15	0	8	11	7	12	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	89	65.8	0.0	92	6	40	19†	2.41	-0.95	1.10	14-15	0	6	15	5	10	nw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	25							2.08	-2.27	0.94	15	0	6					Hackensack Water Co.
Newton.....	Sussex.....	769	60	63.0	-0.8	94	2	35	25†	0.34	-3.42	0.21	15	0	3	12	8	10	nw.	Irving J. Kern.
Orange††.....	Essex.....	140	3							2.24		1.40	14-15	0	7					County Engineer.
Paterson.....	Passaic.....	95	72	64.0	-2.3	92	1	38	27	2.77	-0.84	1.70	7	0	7	11	12	7	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	14	67.7	0.0	98	7	35	19	0.79	-3.39	0.35	30	0	9	14	5	11	ne.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	60	62.6	-2.6	91	1†	34	27†	0.53	-2.96	0.38	30	0	2	16	8	6		Town Engineer.
Plainfield.....	Union.....	120	55	65.0	-0.6	93	6	39	27	3.85	-0.18	2.09	7	0	5	11	8	11	n.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	1							1.55		0.74	14	0	5					Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	45	64.8	-1.1	87	1	35	19	1.55	-1.42	0.48	7-8	0	11	16	5	9	ne.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	3							3.51		1.76	14-15	0	6	5	10	15	ne.	Louis Fontenell.
Ridgefield.....	Bergen.....	80	26	64.8	-0.3	92	1	37	27	1.97	-1.17	0.98	14-15	0	6	11	11	8	n.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	20	65.6	+1.3	94	6	32	27	1.50	-2.50	0.74	14-15	0	5	17	10	3	w.	N. J. Water Policy Comm.
Sandy Hook.....	Monmouth.....	15	45	66.3	-1.2	89	1	48	26	3.12	-0.31	1.31	7-8	0	10	13	9	8	ne.	U. S. Coast Guard.
Somerville.....	Somerset.....	385	60	65.4	-0.5	95	6	35	27	1.26	-2.46	1.15	15	0	4	24	5	1	e.	Norbert Larky.
Sussex.....	Sussex.....	450	48	62.6	-1.7	91	6†	33	19†	0.84	-2.73	0.53	15	0	5	16	4	10	n.	Marshall Hunt.
Toms River.....	Ocean.....	33	22							3.86	-0.42	2.00	30	0	7					Robt. F. Snyder.
Trenton.....	Mercer.....	56	71	65.6	-1.3	93	1	44	18	1.56	-1.84	0.95	30-1	0	7	11	9	10	n.	U. S. Weather Bureau.
Trenton No. 2.....	Mercer.....	105	13	65.6		92	6	41	19	2.06		1.11	30-1	0	7					Edward H. Ristow.
Tuckerton.....	Ocean.....	23	50	66.4	-0.3	91	2	40	19†	3.47	+0.21	1.46	30	0	7	18	2	10	ne.	John H. Brown.
Vineland.....	Cumberland.....	110	63							1.42	-2.03	0.51	21	0	7	18	7	5	w.	Robert Jones.
Westfield.....	Union.....	145	3							3.90		2.48	7	0	3	17	7	6	ne.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	25							2.16	-2.01	1.05	15	0	6					Hackensack Water Co.
Woodstown.....	Salem.....	16	8							0.70		0.70	13†	0	1	22	5	3	w.	Geo. S. Keen.
New York, N. Y.....		10	73	66.2	-0.6	89	1	45	26	2.17	-1.22	1.68	14-15	0	8	12	6	12	e.	U. S. Weather Bureau.
Philadelphia, Pa.....		10	73	66.4	+0.5	95	1	43	26	1.69	-1.45	0.87	30-1	0	9	8	11	11	n.	U. S. Weather Bureau.
For the State.....				65.0	-0.8	98	7	26	27	1.85	-1.94	2.48	7	0	6	15	7	8	n.	

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. ††Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, *, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also.

§Length of precipitation record; temperature record is much shorter.

*Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia 11-9-43-925

Daily Precipitation for September, 1943

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast		.14	.53	T.			.02	.10						.56	.01	T.	.06			T.	.46	.01		.11							1.61	3.61	
Barnegat City ¹	Coast			.02				.02							.22		.03	.02				.15	.01		.04							1.05	1.56	
Belleplain	Tuckahoe			.16	.01			.19														.41	.12		.13							.85	1.90	
Belmar ²	Coast			.09	T.	.01	T.	.75	.04	T.	T.				.94	.04	.03	.02	T.			.17	.07	T.	.13	T.					1.22	3.51		
Belvidere	Delaware							.08	.14							.20	T.					T.		.05								.60	0.47	
Berlin	Mullica																.20						.05		.30								1.15	
Boonton ³	Passaic				.02			.10	T.							2.01							T.	.06									2.19	
Bridgeton	Delaware				.40			.03								.23	.07					.36	.06		.10							.90	2.15	
Brooklawn	do				T.			T.	.03								.02	T.							.11							.10	0.23	
Burlington	Delaware																								.08							.40	0.48	
Canoe Brook ³	Passaic					.04		.78			.02					1.47			.05					.03	.06								2.45	
Cape May ²	Coast		T.	.36	T.			T.	.32						.10	T.	T.	T.		.07	.60	.07		.10	T.						.50	2.12		
Charlotteburg	Passaic			.03				.20								.75								.06									1.04	
Chatham ³	do					T.		.63								1.75			.07				.01	T.	.05								2.51	
Chatsworth	Coast			.14				.08	.06														.25	.04	.11							.40	1.08	
Clayton	Delaware			.20												.16		.06				.20	.08									.40	1.10	
Clinton	Raritan					T.					T.					.34		.01							.05							.08	0.48	
Culvers Lake	do						T.	.96								.29																	1.25	
Dover	Passaic							.75								.68									.09							.20	1.72	
Egg Harbor City ²	Mullica						2.00	.20							.22		.02		T.		T.		.50		.14						1.68	4.76		
Elizabeth	Coast			T.		.02		1.49	.01		.01					1.51		.03							.16							.04	3.27	
Flemington	Raritan						.22	T.								.54		.04			T.											.06	0.86	
Freehold	do						.27	.03								.14		.07					.12		.13							.48	1.24	
Hammonton	Mullica			.03	.13	.02		.04								.07		.13				T.	.46	.07		.13						.49	1.57	
Hightstown	Raritan			T.		.01	T.	.08	T.		.02					.22	T.	.20			T.		.02		.15							.40	1.10	
Indian Mills	Mullica			T.	T.			.01			T.					T.	.03	.05					.21	.03		.10						.59	1.02	
Jersey City	Coast							.34								.30	.74	.01	.04						.05		.15						1.63	
Lakewood	Metedeconk				.02			.56	.08							.15		.07					.15	.11		.12						.75	2.41	
Lambertville	Delaware							T.								.60			T.						.13							.18	0.91	
Layton	do						.24									.14									.03								.04	0.41
Little Falls ³	Passaic					.01		1.11								.85				.01				.05		.08							.21	2.11
Long Branch ²	Coast			T.	T.	.01		.46	.03						1.33	.10	.04	.02				.07	.07		.14							.96	3.23	
Long Valley ³	Raritan							.23								.48									.06								.07	0.77
Marlton	Delaware			T.	.03			.01			T.					.02		.04					.08	T.		.11						.22	0.51	
Millville ²	Maurice			.40			.07	.07	.02							.02							.41	.02		.09						.96	2.06	
Moorestown ³	Delaware				T.						T.					.11		.05						.03	T.	.11						T.	0.30	
Morris Plains	Passaic					.02		.36	T.		T.					1.67		T.					.05	.07									2.17	
Newark ¹	Coast		T.			T.		.76	T.	.01					1.01	.30	T.	.01	T.			T.	.01		.13						.42	2.65		
New Brunswick	Raritan							1.00	T.							1.10		.07					.02	T.	.13						.09	2.41		
New Milford ²	Hackensack		.09					.90								.94							.04	.01	.10								2.08	
Newton	Delaware							.10								.21																	.03	0.34
Orange ²	Passaic						.54									.55	.85		.01				.04		.04							.21	2.24	
Paterson ²	Passaic					.01	1.70	T.								.25	.62		T.				.05	.07		.07						.07	2.77	
Pemberton	Delaware			.09			T.	.01		.70			.01					.06					.09	.06	.01	.11						.35	0.79	
Phillipsburg	do					T.		T.								T.									.15								.88	0.53
Plainfield	Raritan					T.		2.00	T.							T.	1.53	T.	.01				T.		.08							.20	3.85	
Plainboro	Raritan						.45									.74		.13							.14							.09	1.55	
Pleasantville ³	Coast			T.	.02	T.		.37	.11							.22		.04				.19	.23	.02	.09	.06						.10	1.55	
Rahway ²	Rahway			T.				1.28								1.05	.71		.04						.10							.33	3.51	
Ridgefield ²	Hackensack						.65	T.								.98	.03	.01					T.	T.		.20						.10	1.97	
Runyon	Coast						.30									.74		.14					.05									.27	1.50	
Sandy Hook ¹	Coast					T.		1.30	.01							.59	.24	.12	.02				.01	.01		.12						.70	3.12	
Somerville	Raritan					.02		.04								1.15	T.								.05								1.26	
Sussex	Hudson					T.		.24	.02							.53	.02								.03								0.84	
Toms River	Coast						.15	.16							1.06	T.		.12	T.				.34	.03		.12						2.00	3.86	
Trenton ¹	Delaware		.43	T.	T.	T.		T.	T.	T.					.16	.03	.12	T.			T.	T.	.01		.08							.73	1.56	
Trenton No. 2 ²	Delaware			.46				.14	T.							.24	.04	.07	T.				T.		.16								.95	2.06
Tuckerton	Coast				.03			.42								.98							.28	.12	.18							1.46	3.47	
Vineland	Maurice			.36	T.			T.	.01							.10		.01	T.				.51	T.		.13						.30	1.42	
Westfield ³	Rahway			T.				2.48								1.34			T.				T.		.08								3.90	
Woodcliff Lake ²	Hackensack		.03					.90</																										

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ^{4</}

Daily Temperatures for September, 1943

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum....	78	82	70	72	79	80	81	74	77	71	73	65	67	70	77	77	68	61	68	70	65	57	83	63	64	65	70	73	66	66	.....	71.5
	Minimum....	70	70	68	68	69	72	72	66	63	59	56	54	53	63	56	55	48	48	59	52	62	58	53	50	45	54	59	58	57	.....	60.0	
Barnegat City.....	Maximum....	84	83	68	72	78	81	84	75	84	77	75	67	74	72	79	78	77	61	57	70	66	71	80	65	62	65	74	73	65	66	.....	73.1
	Minimum....	67	68	65	67	66	71	72	52	62	53	52	60	62	64	64	63	54	48	48	55	61	57	59	54	52	48	48	52	59	58	.....	59.1
Belleplain.....	Maximum....	.....	.....	.....	.....	.....	.....	.....	84	81	77	71	70	73	79	88	79	79	80	80	58	67	81	75	70	54	73	79	70	65	.....	.....
	Minimum....	63	67	62	63	64	55	65	65	46	49	37	46	40	50	58	55	54	41	30	37	58	60	51	49	42	36	34	39	41	50	.....	50.8
Belvidere.....	Maximum....	94	91	84	71	83	94	92	79	82	76	79	72	76	74	84	83	71	71	77	71	78	82	83	71	68	70	72	85	79	62	.....	78.5
	Minimum....	60	66	56	63	55	68	66	63	53	50	44	40	39	42	58	51	55	40	36	43	52	58	54	46	38	38	35	39	57	50	.....	51.2
Boonton§§.....	Maximum....	88	88	69	71	81	90	90	77	82	74	75	68	71	69	79	82	70	66	71	68	75	78	80	57	64	65	73	84	74	60	.....	75.0
	Minimum....	58	64	61	61	63	65	63	62	50	53	44	45	40	39	44	52	53	39	35	38	44	51	52	48	44	41	34	39	40	51	.....	49.2
Bridgeton.....	Maximum....	95	95	86	76	88	95	96	80	87	75	80	73	78	77	82	90	78	59	76	73	70	78	82	73	55	66	77	80	81	68	.....	79.6
	Minimum....	55	68	65	64	65	59	71	66	55	54	49	52	47	53	60	61	59	44	41	48	60	55	51	52	48	42	42	49	46	49	.....	55.4
Burlington.....	Maximum....	95	92	89	72	90	96	96	88	82	76	76	74	68	81	89	82	75	76	74	78	81	80	64	67	78	84	78	70	.....	79.7		
	Minimum....	66	69	62	64	64	73	57	63	54	55	50	48	50	49	52	58	67	45	40	48	61	63	58	53	47	44	43	45	52	53	.....	55.8
Canoe Brook§§.....	Maximum....	94	96	71	78	84	88	94	80	85	78	81	68	76	77	88	91	67	73	69	77	81	79	79	70	72	79	90	76	66	.....	82.3	
	Minimum....	58	63	61	51	64	68	62	51	51	43	35	35	40	46	49	54	33	36	39	48	58	52	46	51	37	32	35	41	50	.....	48.8	
Cape May*.....	Maximum....	77	85	71	74	78	79	80	76	78	74	75	70	69	72	74	78	72	66	69	69	68	68	81	65	64	63	70	77	68	66	.....	72.5
	Minimum....	58	70	68	68	70	71	72	67	65	51	59	55	52	58	63	67	57	49	51	62	63	54	63	54	52	49	56	59	57	56	.....	60.9
Charlotteburg.....	Maximum....	90	90	84	75	77	89	88	82	82	75	76	74	69	68	81	89	82	57	72	69	70	77	78	75	56	65	75	82	80	70	.....	77.4
	Minimum....	57	66	60	57	62	66	64	60	48	50	36	38	36	32	58	60	46	31	27	36	49	54	47	41	40	34	25	47	43	44	.....	47.3
Chatsworth.....	Maximum....	95	95	78	70	85	95	97	79	89	77	80	72	71	68	85	94	81	70	76	75	70	69	82	70	57	65	78	84	72	64	.....	78.5
	Minimum....	55	68	62	62	64	56	64	60	46	60	42	50	42	45	60	53	52	42	32	37	59	61	56	52	42	45	34	53	44	51	.....	52.4
Clayton.....	Maximum....	95	95	87	72	87	95	97	83	88	77	81	75	76	75	82	91	81	69	75	72	68	73	83	78	68	56	77	84	76	60	.....	79.5
	Minimum....	60	65	63	64	65	67	69	67	54	53	46	48	44	49	60	57	59	41	36	43	60	61	55	51	45	41	38	40	50	50	.....	53.5
Dover.....	Maximum....	87	82	74	69	77	86	86	79	79	69	72	65	66	67	77	80	69	52	58	66	73	73	76	65	62	66	71	79	70	60	.....	72.5
	Minimum....	56	67	59	61	65	58	64	57	52	51	44	42	38	38	57	51	51	38	35	41	53	56	53	46	43	38	34	41	46	51	.....	50.2
Elizabeth.....	Maximum....	93	93	77	72	87	91	91	77	86	78	79	73	74	76	82	86	75	69	75	70	75	75	83	74	68	69	76	84	74	67	.....	78.2
	Minimum....	55	65	62	55	67	71	66	61	55	58	62	55	54	48	56	67	55	48	40	50	54	50	64	63	57	40	37	50	61	51	.....	55.9
Flemington.....	Maximum....	95	95	79	70	89	96	94	80	88	87	81	74	74	74	86	87	72	71	77	73	78	81	85	76	65	70	81	87	75	68	.....	79.9
	Minimum....	63	67	62	64	66	69	66	66	53	53	48	46	40	44	60	55	57	42	38	44	56	51	56	49	45	42	37	42	50	52	.....	53.1
Freehold.....	Maximum....	93	93	81	70	85	91	91	74	85	75	79	71	71	70	85	88	74	55	72	71	73	71	80	76	63	56	75	82	77	66	.....	77.1
	Minimum....	55	65	61	63	64	64	66	55	54	51	47	46	40	45	60	58	55	39	38	48	58	59	53	50	44	40	41	47	48	50	.....	52.8
Hammononton.....	Maximum....	97	95	86	71	86	97	98	84	89	78	82	75	74	79	84	93	75	70	77	73	71	78	84	73	69	67	79	85	77	75	.....	80.7
	Minimum....	51	66	51	52	62	66	65	65	56	54	41	43	38	44	50	55	39	31	43	51	58	53	49	41	40	41	41	46	44	.....	51.0	
Hightstown.....	Maximum....	92	93	75	70	87	95	96	77	87	77	80	72	71	70	82	87	74	59	76	70	75	73	83	72	68	67	77	85	72	63	.....	77.8
	Minimum....	63	66	62	64	63	58	56	66	53	52	45	44	42	43	60	58	56	40	35	45	57	50	53	51	43	41	39	45	48	51	.....	52.7
Indian Mills.....	Maximum....	96	95	78	70	88	96	95	80	89	81	82	76	77	76	83	92	74	71	75	71	58	72	83	68	70	68	78	85	77	64	.....	79.3
	Minimum....	63	64	54	65	65	68	67	67	49	52	40	45	35	45	61	55	57	40	30	40	60	61	54	51	44	40	40	38	43	51	.....	51.8
Jersey City.....	Maximum....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum....	55	68	66	60	63	67	70	61	55	60	55	60	47	48	58	60	62	53	44	47	53	58	59	57	49	45	47	47	52	50	.....	56.6
Lakewood.....	Maximum....	95	95	76	71	84	90	93	75	86	77	80	71	70	71	82	89	76	67	73	71	69	83	74	65	67	78	82	70	66	.....	77.2	
	Minimum....	65	65	64	54	66	59	66	66	54	52	47	43	45	49	62	59	57	42	38	44	60	61	54	52	44	42	41	48	48	53	.....	54.1
Lambertville.....	Maximum....	92	90	85	70	83	85	91	88	76	82	78	77	72	71	80	84	72	68	73	69	74	79	81	74	66	66	75	81	75	68	.....	77.5
	Minimum....	53	66	52	63	67	66	65	64	56	55	53	50	42	42	59	55	57	40	39	45	56	60	58	50	43	39	36	43	45	50	.....	53.3
Layton.....	Maximum....	91	91	75	75	79	90	87	78	79	73	75	67	72	82	82	70	69	72	70	75	80	78	73	54	57	79	86	74	51	.....	76.2	
	Minimum....	59	68	60	63	60	67	63	51	40	43	39	33	33	34	58	47	47	36	33	34	42	50	47	40	30	27	31	32	39	44	.....	45.7
Little Falls§§.....	Maximum....	92	87	69	76	81	91	90	77	84	76	77	71	72	70	81	84	72	59	74	75	75	82	70	69	68	76	85	75	62	.....	76.7	
	Minimum....	53	58	61	52	64	70	65	63	54	54	47	43	40	42	59	53	56	39	37	43	53	60	53	49	43	39	36	42	48	52	.....	51.9
Long Branch*.....	Maximum....	92	88	70	71	78	86	86	75	83	75	75	64	68	70	80	88	70	63	68	71	70	70	81	67	63	65	76	77	70	60	74.2
	Minimum....	57	65	64	66	68	70	70	59	56	55	49	55																				

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

OCTOBER, 1943.

No. 10

GENERAL SUMMARY.

Temperature conditions for October were not unusual. Nearly all stations averaged slightly colder than normal. There were two short warm periods, one from the 7-9th and the other from the 14-16th inclusive. During the first period, maximum temperatures in the eighties occurred at most stations. There were cool periods from the 5-6th, 10-12th, and 18-20th, and killing frosts occurred over most of the State at some time during these cold spells.

This was the wettest October since 1927, and only three Octobers have had more rainfall since state-wide records were begun in 1885. This was the second month of the current year with precipitation greater than the normal amount, all other months, to date, having been deficient except May with an average of 4.92 inches. The State average deficiency for 1943 to the end of October was 3.77 inches. The average rainfall for this October is the heaviest for any month since August 1942. Good rains fell on the 1st-2d, and 15-19th, and unusually heavy rainfall occurred over the period, 25-28th, during the passage of a slow moving tropical storm, northward along the eastern seaboard. During this storm, stations on or near the coast generally recorded over 6.00 inches of rain, while at Toms River, the total for the four days was 10.13 inches and at Lakewood 11.33 inches. These heavy rains which covered the State in varying amounts were of great benefit in replenishing soil moisture and ground water supplies which had become depleted during the preceding dry months.

Strong winds on the 25th and 26th did considerable damage along the coast. Several vessels were beached and damaged as a result of the abnormally high tides.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 42 stations, was 53.5°, which was 1.1° below normal. The highest temperature was 87° at two stations on the 7th and 9th, and the lowest, 18°, at two stations on the 11th. The highest monthly mean temperature was 57.3° at Cape May, and the lowest, 49.2°, at Long Valley.

The temperature departure from the normal for the year 1943 to date for the State is +0.4°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 61 stations, was 7.51 inches, which was 3.90 inches above normal. The greatest monthly precipitation was 13.94 inches, at Lakewood, and the least, 4.20 inches at Cape May. The greatest amount of precipitation in any 24 consecutive hours was 7.08 inches at Tom's River on the 25-26th.

The average for the Highlands was 7.11 inches; for the Red Sandstone Plain, 7.74 inches; for the Southern Interior, 7.65 inches; and for the Sea Coast, 7.44 inches.

The precipitation accumulated departure from the normal for the year 1943 to date, by sections, is: the Highlands, -2.97 inches; Red Sandstone Plain, -2.25 inches; Southern Interior, -5.15 inches; Sea Coast, -8.20 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 9, 12, 13, 14, 15, 16, 26, 27, 28, 29, 30.

THUNDERSTORMS: 16, 17, 26, 27.

KILLING FROST: 5, 6, 10, 11, 12.

HAIL: 26.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.48	6	29.44	16	16.6	57	ne.	26	83	67	74	49	269
Long Branch.....	30.50	11	29.32	28	13.3	60	ne.	26	82	60	73	56	337
Trenton.....	30.49	11	29.40	16	9.1	43	nw.	10	81	82	57	44	350

COMPARATIVE DATA FOR OCTOBER.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	54.2	82	29	4.20	0	.....	.....	.....
1886.....	55.6	83	21	3.22	0	.....	.....	.....
1887.....	52.3	89	21	2.61	0	.....	.....	.....
1888.....	49.2	73	25	4.73	0	12	.....	.....
1889.....	50.3	82	23	3.80	0	11	.....	.....
1890.....	53.9	81	24	6.33	0	13	9	8
1891.....	52.8	92	18	3.44	0	4	14	11
1892.....	53.6	85	21	0.52	0	8	11	12
1893.....	55.2	85	17	4.22	0	7	15	9
1894.....	55.3	87	27	5.67	0	10	12	12
1895.....	49.9	83	18	3.60	0	5	19	5
1896.....	51.5	82	21	2.24	0	8	11	8
1897.....	55.8	95	22	2.43	0	7	14	8
1898.....	56.5	88	24	5.76	0	10	13	9
1899.....	56.6	86	18	2.72	0	6	13	10
1900.....	59.9	92	19	3.70	0	10	10	8
1901.....	54.4	82	21	1.93	0	4	17	8
1902.....	56.0	80	20	6.39	0	8	15	7
1903.....	55.9	86	24	8.92	0	8	13	9
1904.....	51.9	89	15	3.78	0	5	20	6
1905.....	55.5	90	17	2.71	0	7	18	7
1906.....	55.0	80	11	4.46	0	11	8	9
1907.....	50.6	80	18	4.46	0	7	22	5
1908.....	57.3	92	19	2.71	0	8	15	5
1909.....	51.2	84	18	1.18	0	8	17	7
1910.....	57.2	90	18	3.15	0	7	15	8
1911.....	53.9	80	18	5.49	0	12	10	9
1912.....	57.0	88	25	3.30	0	5	17	8
1913.....	57.8	83	25	7.79	0	11	12	9
1914.....	58.1	88	19	1.99	0	5	13	9
1915.....	56.2	84	23	3.03	0	9	17	7
1916.....	55.1	92	23	1.37	0	4	18	8
1917.....	50.7	84	22	6.99	0	10	15	8
1918.....	57.0	84	22	1.25	0	8	16	9
1919.....	59.0	92	25	3.43	0	13	9	8
1920.....	59.0	87	28	1.80	0	5	20	5
1921.....	54.1	82	16	0.97	0	5	18	7
1922.....	56.6	92	18	1.48	0	7	19	6
1923.....	53.9	81	21	4.25	0	8	16	8
1924.....	54.4	84	16	0.31	0	1	23	6
1925.....	49.1	84	12	4.59	0	11	9	9
1926.....	53.1	90	17	4.08	0	11	13	8
1927.....	56.8	94	23	7.82	0	10	18	5
1928.....	56.1	90	16	1.19	0	6	17	9
1929.....	52.3	80	17	4.61	0	8	15	8
1930.....	52.6	89	12	1.95	0	6	17	7
1931.....	58.3	92	24	2.76	0	8	17	7
1932.....	56.2	89	21	5.85	0	10	13	6
1933.....	53.6	84	18	2.04	T.	6	18	7
1934.....	52.6	82	21	2.49	T.	6	17	6
1935.....	54.8	84	23	4.50	0	8	18	7
1936.....	55.6	82	9	3.40	0	8	15	6
1937.....	53.2	84	15	5.27	T.	10	12	7
1938.....	56.2	93	24	2.47	0	7	19	5
1939.....	54.9	93	19	4.24	0	9	14	6
1940.....	51.0	82	11	2.86	0.7	8	15	7
1941.....	58.9	97	17	1.90	0	8	15	7
1942.....	56.1	87	21	3.43	0	9	15	6
1943.....	53.5	87	18	7.51	0	11	12	7
Period.....	54.6	97	9	3.61	0	8	15	8

Climatological Data for October, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	70	56.4	-0.5	75	2	41	21	7.93	+4.73	4.89	25-26	0	9	11	6	14	w.	U. S. Weather Bureau.
Barnegat City	Ocean	36	23	56.2		78	7	42	6†	5.06		4.51	26-27	0	5					U. S. Coast Guard.
Belleplain	Cape May	49	49	52.4*	-3.6	78	8	25	12	7.30	+4.40	1.80	27-28	0	11	14	9	8	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	1							8.92		4.25	25-26	0	11					City Water Dept.
Belvidere	Warren	289	51	53.2	-1.7	83	7†	28	11	7.46	+3.64	1.70	25-26	0	10	16	4	11		Miss C. S. Hixson.
Berlin	Camden	70	2							6.67		1.80	28	0	7	18	6	7		Samuel H. McCulley.
Boonton	Morris	280	53	50.4	-1.8	80	7	25	11	6.54	+2.63	2.22	27	0	13	12	2	17	ne.	John Kline.
Bridgeton	Cumberland	30	60	54.4	-2.5	78	8†	33	31	5.87	+2.77	1.82	27-28	0	11	14	2	15	nw.	Bennett K. Matlack.
Brooklawn	Camden	30	2							5.93		1.62	28	0	8					C. D. Scott.
Burlington	Burlington	12	57	55.4	-1.8	85	8	33	20	6.32	+2.83	1.55	27-28	0	10	18	4	9	w.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	13	53.0	+0.6	87	7	23	11	7.86	+4.42	2.64	26-27	0	13	10	7	14	w.	N. J. Water Policy Comm.
Cape May	Cape May	17	55	57.3	-2.3	74	2	43	6	4.20	+0.76	1.59	28	0	8	11	8	12	nw.	Naval Air Station.
Charlotteburg††	Passaic	760	51	50.6	-0.8	79	9	18	11	7.50	+3.09	2.13	26-27	0	12	9	5	17	e.	Newark Water Dept.
Chatham	Morris	185	39							7.22	+3.11	2.30	26-27	0	13	11	11	9		Paul Molitor, Sr.
Chatsworth	Burlington	90	2	54.8		87	9	27	6†	9.10		2.04	25-26	0	9	12	9	10	w.	Alfred L. Stevenson.
Clayton	Gloucester	120	30	55.0	-1.4	81	8†	30	12	6.93	+3.77	1.62	27-28	0	8	12	2	17	n.	Worthy Hitt.
Clinton	Hunterdon	300	0							6.03		1.16	27-28	0	12	22	2	7	nw.	L. W. Klockner.
Culvers Lake††	Sussex	760	42							5.96	+2.35	1.36	25-26	0	12					L. S. Dupue.
Dover	Morris	600	59	50.9	-0.5	77	7	24	11	8.57	+4.43			0	11	5	13	13		William C. Harris.
Egg Harbor City	Atlantic	63	21							7.90	+3.82	3.40	26	0	9					Chas. E. Hall.
Elizabeth	Union	34	64	55.4	+0.2	83	7	32	31	9.74	+5.79	2.25	26-27	0	12	12	3	16	ne.	Union County Park Comm.
Flemington	Hunterdon	140	57	55.0	-0.6	86	7	27	11	6.62	+3.11	1.38	16-17	0	13	17	4	10	w.	Hiram E. Deats.
Ereehold	Monmouth	194	39	53.6	-1.7	80	9	28	11	9.73	+6.05	2.90	26-27	0	13	16	7	8	w.	Moreau Plant Co.
Hammonton	Atlantic	95	37	54.4	-2.0	82	9	27	12	4.90	+1.05	1.70	25-26	0	10	16	5	10	ne.	J. G. Wilson.
Hightstown	Mercer	110	50	54.2	-0.7	81	8†	29	12	5.50	+2.10	1.44	25-26	0	12	10	11	10	nw.	James R. Pickering.
Indian Mills††, 2 mi. W	Burlington	100	54	54.0	-1.3	84	8	25	12	7.55	+3.86	1.77	26-27	0	10	11	10	10	nw.	Edward Entwistle.
Jersey City	Hudson	81	45							6.39	+2.29	1.95	26	0	11	16	4	11	nw.	J. C. Water Dept.
Lakewood	Ocean	54	39	54.5	+0.1	80	7†	30	12	13.94	+10.14	5.70	26-27	0	14	9	8	14	w.	R. W. Holman.
Lambertville	Hunterdon	75	56	53.5	-0.9	80	7†	27	11	7.22	+3.67	1.30	16-17	0	11	13	6	12	sw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex	480	42	49.8	-0.1	81	7†	18	11	6.49	+2.74	1.33	26	0	13	10	4	17	n.	A. M. Dupue.
Little Falls	Passaic	157	40	52.8	-1.3	83	7	27	11	8.92	+4.33	4.00	26-27	0	14	11	9	11	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	35	54.1	-1.1	80	7†	34	6	9.53	+5.14	4.81	26	0	11	8	8	15	w.	Storm Waru, Display Sta.
Long Valley	Morris	660	13	49.2		81	7	20	11	7.67	+4.32	1.34	26-27	0	12	12	10	9	w.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	1							7.21		1.72	28	0	11	14	6	11	nw.	David Griscorn.
Millville	Cumberland	60	2							5.90		2.30	26	0	10	12	8	11		Paul Ritchie.
Moorestown	Burlington	62	80	53.4	-1.4	82	8	31	11†	7.03	+3.55	1.90	26-27	0	12	12	6	13	nw.	Japanese Beetle Laboratory
Morris Plains	Morris	500	2							9.42		2.22	30-1	0	13	17	3	11		James C. Long.
Newark	Essex	10	89	53.6	-2.0	82	7†	35	12	8.20	+3.84	4.04	26-27	0	12	10	7	14	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	89	54.4	-0.4	81	7	32	13	6.46	+2.84	1.50	15-16	0	12	10	8	13	nw.	N. J. Experiment Station.
New Milford††	Bergen	12	25							8.71	+5.62	2.64	26	0	11					Hackensack Water Co.
Newton	Sussex	769	60	51.3	-1.4	83	7	27	11	8.96	+5.31	1.76	16-17	0	15	11	1	19	nw.	Irving J. Kern.
Orange††	Essex	140	3							8.85		4.45	26	0	13					County Engineer.
Paterson	Passaic	95	72	52.2	-2.9	83	7	28	11	8.44	+4.33	3.60	26	0	12	11	9	11	w.	J. W. Cook.
Pemberton	Burlington	55	14	55.6	-0.1	85	8	29	12	6.46	+3.13	1.30	28	0	12	13	6	12	w.	Charles S. Beckwith.
Phillipsburg	Warren	182	60	51.2	-2.3	79	7†	27	11	5.93	+2.33	2.07	25-26	0	11	13	7	11		Town Engineer.
Plainfield	Union	120	55	53.8	-0.2	82	9	32	6†	7.68	+3.60	1.85	30-1	0	13	8	6	17	nw.	S. K. Pearson.
Plainboro	Middlesex	110	1							6.27		1.54	25-26	0	11					Walker-Gordon Lab.
Pleasantville††	Atlantic	8	45	54.4	-0.4	80	9	29	13†	10.43	+7.10	4.30	26-27	0	11	19	4	8	nw.	N. J. Water Policy Comm.
Rahway	Union	20	3							7.86		4.20	26	0	11	9	6	16	ne.	Louis Fontenelli.
Ridgefield	Bergen	80	26	52.4	-1.4	82	7	29	11	9.43	+5.20	2.78	15-16	0	12	11	9	11	nw.	George P. Kirsten.
Runyon††	Middlesex	18	20	51.3	-1.5	82	9	26	6†	8.10	+4.32	1.72	26-27	0	11	18	7	6	w.	N. J. Water Policy Comm.
Sandy Hook	Monmouth	15	45	55.6	-1.1	78	7	42	31	9.03	+5.25	4.86	26-27	0	11	11	9	11	ne.	U. S. Coast Guard.
Somerville	Somerset	385	60	52.8	-1.4	81	7	30	6†	5.57	+1.98	1.20	18-19	0	8	17	5	9	ne.	Norbert Larky.
Sussex	Sussex	450	48	52.0	-0.9	82	7	20	11	6.39	+3.03	1.46	26-27	0	14	10	4	17	ne.	Marshall Hunt.
Toms River	Ocean	33	22							11.65	+7.59	7.08	25-26	0	9					Robt. F. Snyder.
Trenton	Mercer	56	71	54.0	-1.6	81	8	36	11	5.12	+2.34	2.08	25-26	0	11	9	10	12	nw.	U. S. Weather Bureau.
Trenton No. 2	Mercer	105	13	54.0		80	8†	33	11	5.95		2.51	26	0	10					Edward H. Ristow.
Tuckerton	Ocean	23	50	55.3	-1.2	83	9	32	1	7.18	+3.56	2.46	26-27	0	9	15	2	14	nw.	John H. Brown.
Vineland	Cumberland	110	63							6.77	+3.73	1.75	28	0	9	14	10	7	sw.	Robert Jones.
Westfield	Union	145	3							7.30		2.20	26-27	0	12	15	4	12	ne.	Town Engineer.
Woodcliff Lake††	Bergen	103	25							8.78	+5.74	3.32	26-27	0	11					Hackensack Water Co.
Woodstown	Salem	16	8																	Geo. S. Keen.
New York, N. Y.		10	73	55.0	-1.3	78	9	41	31	9.24	+5.71	4.23	26-27	0	9	9	8	14	w.	U. S. Weather Bureau
Philadelphia, Pa.		10	73	54.0	-1.5	82	8	35	11	5.21	+2.40	1.71	28	0	10	9	6	16	nw.	U. S. Weather Bureau.
For the State				53.5	-1.1	87	7†	18	11	7.51	+3.90	7.08	25-26	0	11	12	7	12	nw.	

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. †Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also.

§Length of precipitation record; temperature record is much shorter.

*Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia, Pa., -12-10-43-925.

Daily Precipitation for October, 1943

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast	.03			T.					.01					.69	.26				T.				.03		T.	1.60	4.02	.05	1.24		T.		7.93
Barnegat City ¹	Coast	.09			T.										.10					T.				T.			.29	4.51	T.	.07			5.06	
Belleplain	Tuckahoe	.88													.44	.10	.38							.14			.51	1.38	1.58	1.80		.05	.04	7.30
Belmar ²	Coast	.69	T.		T.	T.			T.		T.		T.	T.	.01	.44	.22	T.	.02	T.	T.			.02			1.10	4.25	.30	.80		.07		8.92
Belvidere	Delaware	.72	.22												.15		.27							.63			.10	1.70	1.10	1.43		.14		7.46
Berlin	Mullica	.90													.22	1.00											1.25	1.00	1.80	.50			6.67	
Boonton ¹	Passaic	.46	.70													.97	.52		.04				.01	.21	T.	.02	.53	2.22	.20	.55		.11	4.54	
Bridgeton	Delaware	.80	.03												.20	.06								.30			.39	1.50	.68	1.82	.04	.05		5.87
Brooklawn	do	.92													.34	.83		.09									.30	.77	1.06	1.62		T.		5.93
Burlington	Delaware	.90													.69	T.	.35		.02				.09				.24	1.13	1.32	1.55		.03		6.32
Canoe Brook ³	Passaic	.59	.41												.16	.61		.05				.07	.18				.07	.60	2.64	.37	.55		.11	7.86
Cape May ²	Coast	.09			T.					T.					.25	.18		T.	T.				.05		T.		.50	1.50	.04	1.59		T.		4.20
Charlotteburg	Passaic	1.17	.34								.02				.15	1.33	T.						.20				.07	1.15	2.13	.75	.10	.09		7.50
Chatham ³	do	.61	.43		T.										.43	.64			.03				.04	.19			.03	.49	2.30	.81	.59		.13	7.22
Chatsworth	Coast	1.58													.88	.24	.44										.52	2.04	1.94	1.40		.06		9.10
Clayton	Delaware	1.12													.60	.10	.55										.47	1.50	.97	1.62				6.93
Clinton	Raritan	.75	.19												.39	.46	.50		T.	.07			.29				.16	1.12	.87	1.16	T.	.07		6.03
Culvers Lake	do	.94	.40												.25	.64	.25						.10		T.		.06	1.36	1.03	.85	.04	.04		5.96
Dover	Passaic	1.77	.05												1.20	1.11			.37				.35				* 2.00	.63	.96		.13		8.57	
Egg Harbor City ²	Mullica	.05														.83	.30			.06							1.40	3.40		1.40	.40	.06		7.90
Elizabeth	Coast	1.05	.03							T.					.56	1.05	.21		.07				.19				.15	2.12	3.25	.95		.11		9.74
Flemington	Raritan	.76	.08												.08	.79	1.38		.15				.21				.13	.85	.99	1.05	.07	.08		6.62
Freehold	do	1.09	.05							T.					1.20	.43	.82		.04				.10				.48	2.08	2.90	.95	.02	.07		9.73
Hammonton	Mullica	1.13													.67	.06							.05				.55	1.70	.04	.66		.02	.02	4.90
Hightstown	Raritan	.64	T.		T.										.65	.36	.28		.06				.11				.31	1.41	.74	1.16	.02	.03		5.80
Indian Mills	Mullica	.97													.63	.09	.43		T.				.06				.41	1.55	1.77	1.60	T.	.04		7.55
Jersey City	Coast	.17	.19												1.17	.55		.02	.03				.12				.25	1.95	1.25	.69				6.39
Lakewood	Metedeconk	.80		.08											.80	.53	.17		.06				.08				.75	4.05	5.70	.78	.05	.06	.03	13.94
Lambertville	Delaware	.92	.08												.62	.26	1.30		.10				.09				.23	1.24	1.10	1.28	T.	T.		7.22
Layton	do	.71	.33												.48	.26	.91		.03				.04			.04	.06	1.33	1.26	.98	T.	.06		6.49
Little Falls ³	Passaic	.74	.70								.02				.12	.43			.06				.01	.20			.02	.68	4.00	.30	.50		.14	8.92
Long Branch ²	Coast	.20	.01		T.										1.01	.28		.03				.06					.92	.41	.49	.77		.05		9.53
Long Valley ³	Raritan	.54	1.16												.85	1.32			.08				.36				.73	1.34	.31		.78		.18	7.67
Marlton	Delaware	1.23			.02										.68	.08	.48		.02				.09				.38	1.15	1.31	1.72		.07		7.21
Millville ²	Maurice	.36													.25	.36							.04		.03		.55	2.30	.08	1.91		.02		5.90
Moorestown ³	Delaware	1.15	.11												.79	.50			.04				.03		.03		.13	.75	1.90	.90	.68		.05	7.03
Morris Plains	Passaic	2.22	.16												.19	1.38	.78		.05				.31				.05	1.19	1.92	.97	.08	.13		9.42
Newark ¹	Coast	.64	.01							T.					1.76	.21		.04	.0				.18				.28	3.96	.20	.76		.14		8.20
New Brunswick	Raritan	1.24	T.												.70	.80	.19		.06				.13	T.			.13	1.18	1.01	.97	.01	.04		6.46
New Milford ²	Hackensack	1.43	.19												2.33	.51			.04				.04				.02	.64	.96	.46		.09		8.71
Newton	Delaware	1.34	.43	T.											.41	.43	1.76	T.	.06				.46		.03		.13	1.56	1.00	1.15	.05	.13	.02	8.96
Orange ²	Passaic	1.02	.03												1.65	*	.38	.02					.13			*	.17	4.45	.17	.72		.11		8.85
Paterson ²	Passaic	1.02	.08							T.					1.65	.46	*	.04	.03				.18				.04	.69	.55	.67		.12		8.44
Pemberton	Delaware	1.02		.03	T.										.63	.21	.39		.02				.01				.37	1.14	1.24	1.30		.10		6.46
Phillipsburg	do	.43	.14												.42	.50		.06	.11				.40				.15	2.07	T.	1.54		.11		5.93
Plainfield	Raritan	1.85	.01							T.					1.12	.12	.43		.07				.23				.14	1.30	1.21	1.12	.01	.07		7.68
Plainsboro	Raritan	.89													.65	.47	.23		.06				.13				.29	1.54	.90	1.10	.01			6.27
Pleasantville ³	Coast	1.66	.05		T.						T.				1.00	.18							.04				.06	1.78	4.30	.84	.50	.02	T.	10.43
Rahway ²	Rahway	.53													1.20	.28		.02	.06				.19				.20	4.20	.17	.91		.10		7.86
Ridgefield	Hackensack	.60	.71												*	2.78	.32		.03				.12				.10	2.13	1.82	.69	T.	.13		9.43
Rumson	Coast	1.41													1.19	.46	.26	.06					.13				.21	1.64	1.72	.98		.04		8.10
Sandy Hook ¹	Coast	.65	.01	T.	T.										1.83	.16		.02	T.				.12		T.		.58	4.85	.14	.64		.03		9.08
Somerville	Raritan	.45													.73	T.		1.20					.24		T.		1.01	.06	.79	1.00				5.57
Sus>																																		

Daily Temperatures for October, 1943

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*	Maximum	67	75	65	59	63	62	73	69	74	62	59	62	65	69	66	66	54	57	56	60	67	65	60	58	56	63	60	57	61	68	59	63.1
	Minimum	64	59	54	49	43	43	51	53	58	51	51	45	42	47	46	47	46	46	43	41	41	47	42	42	50	51	52	47	46	41	49.7	
Barneget City†	Maximum	70	75	65	59	64	62	78	68	74	62	60	62	67	71	67	68	55	56	56	68	65	61	60	59	55	60	60	56	60	67	58	63.4
	Minimum	64	58	52	46	43	42	47	52	54	51	45	44	43	41	41	43	47	43	42	43	46	47	44	49	50	52	48	45	49	42	49.0	
Belleplain	Maximum	65	74	70	61	61	63	73	78	77	55	60	67	68	75	70	68	65	54	53	58	65	68	65	65	55	59	56	60	61	58	64.2	
	Minimum	54	57	48	44	30	28	35	41	40	45	37	25	27	48	55	60	41	38	38	34	32	36	32	32	42	46	46	43	43	27	40.6	
Belvidere	Maximum	57	72	65	62	63	69	83	83	81	68	68	69	75	76	71	76	69	55	55	51	67	54	59	57	57	50	46	46	43	41	40	42.6
	Minimum	53	61	48	40	33	29	40	41	40	44	28	33	43	49	59	61	44	41	38	39	39	38	38	41	39	40	43	50	43	41	40	40.7
Boonton§§	Maximum	69	74	63	57	59	66	80	78	77	60	62	68	71	73	68	72	50	52	50	58	63	51	53	41	39	40	43	53	60	50	43	40.7
	Minimum	52	58	52	48	34	30	31	39	39	42	25	26	29	32	51	55	47	41	40	40	42	35	37	36	38	40	43	51	47	44	34	40.7
Bridgeton	Maximum	63	75	66	68	62	63	75	78	78	48	38	34	36	50	58	62	43	36	38	40	39	38	43	45	38	54	53	56	60	66	61	44.5
	Minimum	55	55	52	46	40	38	41	45	46	48	38	34	36	50	58	62	43	36	38	40	39	38	43	45	38	54	53	56	60	66	61	44.5
Burlington	Maximum	68	70	71	62	63	69	80	85	80	72	69	78	77	78	74	72	70	58	58	58	67	63	56	60	57	52	54	54	57	56	57	65.7
	Minimum	55	61	55	49	40	38	44	46	47	48	36	35	38	50	50	61	46	44	38	33	40	43	40	40	43	47	47	44	38	44	45.0	
Canoe Brook§§	Maximum	75	81	69	64	67	75	87	82	86	63	67	75	78	80	76	72	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	67.1
	Minimum	53	59	52	51	28	32	37	37	37	42	23	28	29	35	49	57	43	39	31	36	35	31	32	32	40	41	41	50	42	31	38.9	
Cape May*	Maximum	66	74	66	59	61	64	72	70	73	62	60	64	66	70	68	66	56	59	58	58	63	63	60	59	58	57	52	55	56	61	57	63.1
	Minimum	62	60	58	48	44	43	53	60	58	52	47	45	49	62	62	54	49	48	47	47	47	47	47	47	47	47	47	47	47	47	47	51.5
Charlotteburg	Maximum	65	74	72	59	57	64	80	78	79	77	62	70	72	71	69	68	69	54	49	47	63	57	52	52	51	44	54	54	60	56	58	62.5
	Minimum	52	57	47	45	27	25	34	36	31	37	18	23	28	36	58	57	41	37	37	35	42	33	36	36	38	40	44	44	40	43	38	38.7
Chatsworth	Maximum	68	76	68	61	62	67	85	81	87	65	62	70	72	71	69	68	58	57	57	57	57	57	57	57	57	57	57	57	57	57	57	65.5
	Minimum	55	58	52	47	33	27	33	50	45	46	30	27	28	46	60	61	55	47	47	40	35	36	42	45	45	46	51	49	40	47	40	44.0
Clayton	Maximum	75	77	70	64	63	66	78	81	81	77	64	70	73	78	73	75	74	60	57	60	65	67	55	60	62	60	55	56	61	66	64	67.3
	Minimum	54	59	54	47	39	35	37	43	43	47	33	30	35	48	57	62	39	45	40	39	37	37	34	39	35	39	47	49	44	45	44	42.8
Dover	Maximum	66	72	63	57	57	63	77	75	76	61	59	65	69	71	67	71	64	51	50	50	65	49	55	57	46	54	54	58	53	55	60.5	
	Minimum	53	57	49	38	34	31	42	42	45	37	24	29	38	42	59	57	43	40	36	37	41	36	38	41	38	40	43	47	44	41	37	41.3
Elizabeth	Maximum	70	79	70	63	65	69	83	77	82	68	66	70	75	74	71	73	65	57	55	57	69	59	60	59	53	47	59	58	60	57	61	65.5
	Minimum	43	62	57	45	42	36	39	54	61	51	37	35	30	49	59	63	48	40	34	38	47	42	44	39	42	41	46	51	47	42	32	45.2
Flemington	Maximum	70	75	68	62	65	73	86	84	84	76	67	73	75	77	73	76	72	57	58	54	72	62	60	62	53	46	57	56	63	59	62	67.0
	Minimum	55	60	51	49	40	33	39	46	42	46	27	30	34	45	58	60	44	42	39	38	40	38	39	38	42	42	45	51	43	44	36	43.1
Freehold	Maximum	70	74	69	59	60	67	73	77	80	70	60	69	71	75	71	74	70	54	53	53	65	58	58	58	58	58	58	58	58	60	58	63.7
	Minimum	53	59	53	48	34	32	42	46	49	44	28	33	38	49	57	61	43	41	37	37	38	39	40	38	43	47	50	42	46	36	43.4	
Hammoncton	Maximum	67	77	71	61	64	70	79	81	82	66	65	72	72	78	74	74	74	56	56	59	60	56	53	62	52	58	60	57	60	64	62	65.9
	Minimum	52	59	54	43	33	31	40	43	58	45	30	27	30	46	58	61	42	40	36	36	32	40	48	37	44	48	49	45	43	48	33	42.9
Hightstown	Maximum	71	77	66	60	63	69	80	81	81	69	62	70	75	77	70	76	68	54	54	57	66	61	59	58	51	50	57	55	60	58	59	65.0
	Minimum	53	61	54	48	33	30	42	43	48	45	30	29	36	46	55	60	44	43	37	38	37	37	40	37	43	44	48	51	44	48	43	43.5
Indian Mills	Maximum	67	77	66	62	65	69	79	84	82	68	67	71	74	78	69	74	67	55	53	59	67	56	57	58	52	53	55	55	60	65	57	65.2
	Minimum	55	60	52	46	30	26	41	42	43	46	27	25	30	50	56	62	45	42	38	38	35	40	47	38	44	46	51	50	43	46	30	42.7
Jersey City	Maximum	56	52	48	42	42	41	41	49	54	44	42	39	43	44	48	58	45	44	45	41	32	44	43	42	43	40	42	47	48	41	36	44.4
	Minimum	51	46	40	36	33	30	38	40	46	48	31	30	32	43	51	62	44	42	38	37	39	36	40	40	45	46	51	51	52	47	35	43.8
Lakewood	Maximum	67	74	67	63	62	67	80	79	80	76	64	69	72	76	70	76	69	55	55	57	66	58	57	57	57	57	57	57	57	57	57	64.6
	Minimum	52	59	50	48	35	30	38	42	43	47	27	33	36	46	56	60	44	42	38	38	37	38	41	39	40	41	47	48	44	45	31	42.4
Lambertville	Maximum	65	70	67	60	61	70	81	80	80	64	63	70	72	72	71	72	60	52	52	48	53	53	55	53	47	45	53	53	61	59	56	62.1
	Minimum	41	58	46	39	27	24	28	34	32	31	18	25	31	40	60	59	43	38	31	33	35	29	34	41	37	39	47	47	44	40	34	37.5
Little Falls§§	Maximum	69	77	65	60	61	69	83	77	81	69	63	70	74	73	70	72	53	54	53	66	53	52	55	51	48	53	58	54	61	52	60	63.1
	Minimum	54	61	50	47	32	30	38	43	41	44	27	30	34	41	55	62	46	43	38	39	36	40	37	41	43	41	54	50	46	46	35	42.4
Long Branch*	Maximum	71	76	64	60	62	63	80	71	80	61	57	65	62	68	73	72	68	58	56	53	55	65	60	56	50	56	61	56	60	62	58	62.8
	Minimum	60	61	56	43	38	34	45	50	52	45	38	35	42	48	57	58	45	42	38	39	40	39	42	39	46	49	52	50	44	44	37	45.4
Long Valley§§	Maximum	67	72	62	61	62	67	81	80	79	59	62	68	70	73	75	74	51	54	52	50	65	56	60	56	50	53	53	53	58	58	62.3	
	Minimum	49	57	41	42	33	26	29	36	35																							

51.05
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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

NOVEMBER, 1943.

No. 11

GENERAL SUMMARY.

November opened mild and continued slightly warmer than normal until the 10th. Somewhat colder than normal weather prevailed the remainder of the month except for comparatively mild periods the 19th to 21st and 25 to 27th. No extremely high or low temperatures were registered during the month.

Precipitation average for the State was 90 percent of normal. It was greatest in the Highland region and least near the Sea Coast. There was much sunshine and few rainy days. Traces of snow fell on several days but there was no snow of importance, only a few stations having measurable amounts at any time. Most of the rainfall occurred on the 2d, 3d, 8th, 9th, 21st, and 22d, with the heaviest amounts at most stations on the 8-9th. Moderate gales occurred in coastal areas on the 7th, 8th, 9th, and 22d, but the winds were not of sufficient velocity to cause damage of consequence.

The month was very favorable for the harvesting of crops, and most of this work was completed by the close of the month except for some corn in the shock.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 43 stations, was 42.4°, which was 1.3° below normal. The highest temperature was 73° at Canoe Brook on the 8th, and the lowest, 9°, at Layton on the 29th. The highest monthly mean temperature was 46.8° at Cape May, and the lowest, 37.0°, at Long Valley.

The temperature departure from the normal for the year 1943 to date for the State is +0.2°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 62 stations, was 2.89 inches, which was 0.31 inch below normal. The average total snowfall at 24 selected stations was a "trace", which was 1.3 inches below normal. The greatest monthly precipitation was 4.82 inches at Newton, and the least, 0.20 inch at Barnegat City. The greatest amount of precipitation in any 24 consecutive hours was 3.17 inches at Newton on the 8-9th.

The average for the Highlands was 3.76 inches; for the Red Sandstone Plain, 3.08 inches; for the Southern Interior, 2.45 inches; and for the Sea Coast, 2.09 inches.

The precipitation accumulated departure from the normal for the year 1943 to date, by sections, is: the Highlands, -2.37 inches; Red Sandstone Plain, -2.19 inches; Southern Interior, -5.62 inches; Sea Coast, -9.32 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 2, 3, 6, 8, 9, 16.

THUNDERSTORMS: 8, 9.

SLEET: 29, 30.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.40	7	29.69	9	15.6	43	s.	7	78	58	70	71	562
Long Branch.....	30.42	7	29.65	9	14.1	38	nw.	22	76	48	66	66	705
Trenton.....	30.41	1	29.67	9	9.3	31	nw.	27	76	50	66	57	633

COMPARATIVE DATA FOR NOVEMBER.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	44.8	76	18	4.53					
1886.....	44.5	73	17	4.49					
1887.....	41.5	72	13	1.94		6			
1888.....	45.8	77	8	3.97		10			
1889.....	45.7	69	13	8.48		13			
1890.....	43.8	74	11	0.82		8	13	12	5
1891.....	42.2	70	6	2.39		4	12	10	8
1892.....	41.9	71	12	7.29		11	8	9	13
1893.....	41.8	70	11	3.48		7	10	11	9
1894.....	40.3	76	11	3.34		10	13	7	10
1895.....	45.7	80	12	3.17	0	10	12	7	11
1896.....	48.2	78	12	3.05	3.2	8	9	9	12
1897.....	43.8	74	10	4.59	1.3	12	8	11	11
1898.....	42.4	70	11	6.76	14.7	14	10	9	11
1899.....	44.0	71	17	2.29	1.1	7	15	8	7
1900.....	47.5	79	15	3.43	T.	9	9	10	11
1901.....	38.5	69	10	2.38	0.8	6	12	9	9
1902.....	49.3	80	20	2.20	0.2	8	10	11	9
1903.....	39.9	79	3	1.26	T.	6	16	8	6
1904.....	40.2	69	6	2.18	1.6	6	12	10	8
1905.....	42.1	70	6	1.84	0.1	6	12	10	8
1906.....	43.6	70	8	1.61	2.3	6	16	7	7
1907.....	43.5	68	13	5.65	0.8	13	10	8	12
1908.....	43.1	72	2	0.96	2.2	4	14	8	8
1909.....	46.4	80	12	2.36	2.1	8	13	8	9
1910.....	40.4	71	13	3.79	1.4	9	5	13	12
1911.....	41.3	73	13	5.17	1.7	10	8	11	11
1912.....	45.3	76	11	3.43	1.3	6	15	8	7
1913.....	46.2	77	21	2.71	T.	7	14	7	9
1914.....	43.3	80	6	2.60	0.7	6	16	8	6
1915.....	44.0	75	17	1.69	0	8	14	8	8
1916.....	43.3	75	12	2.11	T.	8	16	5	9
1917.....	39.8	68	9	0.56	0.7	3	19	5	6
1918.....	43.9	71	12	1.87	0	7	14	6	10
1919.....	43.7	76	13	3.74	T.	11	13	7	10
1920.....	43.0	74	12	4.41	0.2	10	9	6	15
1921.....	44.3	79	18	4.26	0.1	14	9	6	15
1922.....	44.3	73	13	0.91	0.2	6	18	8	9
1923.....	43.1	72	11	2.51	0	7	11	8	11
1924.....	42.9	77	1	2.03	1.3	5	14	8	8
1925.....	42.0	76	10	3.40	0.7	9	14	8	8
1926.....	42.5	76	8	4.04	T.	9	13	8	9
1927.....	47.9	78	15	4.02	0.1	11	10	8	12
1928.....	45.1	78	13	1.90	0.3	9	10	9	11
1929.....	44.5	83	4	2.73	0.4	10	10	7	13
1930.....	44.1	73	2	3.70	0.2	9	12	6	12
1931.....	50.3	80	14	0.82	1.6	6	12	7	11
1932.....	42.0	71	3	7.81	T.	9	14	6	10
1933.....	40.6	78	7	1.01	0.6	7	13	7	10
1934.....	47.3	80	10	2.91	0.1	11	12	6	12
1935.....	47.8	78	8	4.95	2.1	13	7	6	17
1936.....	41.1	80	3	1.18	1.3	6	14	7	9
1937.....	43.7	72	10	4.56	0.2	9	16	5	9
1938.....	45.6	80	7	3.42	12.6	12	14	6	10
1939.....	41.5	78	12	1.86	0.2	4	17	6	7
1940.....	43.5	76	10	4.66	1.0	10	8	7	15
1941.....	46.8	78	13	2.90	0	5	17	7	6
1942.....	44.9	78	12	4.14	T.	10	14	7	9
1943.....	42.4	73	9	2.89	T.	6	15	8	7
Period.....	48.7	83	-7	3.20	1.3	8	12	8	10

Climatological Data for November, 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy	
Atlantic City.....	Atlantic.....	8	70	46.2	+0.6	65	8	28	29	2.95	+0.13	1.63	2-3	T.	8	13	11	6	w.	U. S. Weather Bureau.	
Barnegat City.....	Ocean.....	36	\$23	45.8		66	6†	26	17	0.20		0.08	2-3		0	6				U. S. Coast Guard.	
Belleplain.....	Cape May.....	49	49	41.9	-2.9	70	8	14	29	3.25	+0.71	1.76	3	T.	6	15	11	4	nw.	Mrs. Edward C. Hoffman.	
Belmar.....	Monmouth.....	19	1							2.34		0.62	3		11					City Water Dept.	
Belvidere.....	Warren.....	289	51	40.7	-0.7	67	9	20	17†	4.15	+0.96	2.33	8-9	T.	6	19	5	6		Miss C. S. Hixson.	
Berlin.....	Camden.....	70	2							1.65		1.00	2	T.	4	18	8	4		Samuel H. McCulley.	
Boonton.....	Morris.....	280	\$53	39.0	-2.4	67	8	17	30	3.51	+0.50	2.30	8-9	T.	5	6	4	20	nw.	John Kline.	
Bridgeton.....	Cumberland.....	30	60	44.0	-1.7	69	7	22	29	2.56	-0.04	1.25	3		0	5	21	5	4	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	2							2.92		1.17	8-9		5					C. D. Scott.	
Burlington.....	Burlington.....	12	\$57	44.3	-1.4	70	8	24	29	2.38	-0.60	1.42	8-9	T.	6	21	5	4	w.	Public Service E. & G. Co.	
Canoe Brook††.....	Essex.....	180	13	40.4	-1.3	73	8	12	29	3.30	-0.29	1.86	8-9		5	18	6	6	sw.	N. J. Water Policy Comm.	
Cape May.....	Cape May.....	17	55	46.8	-0.6	66	7	27	29	1.96	-1.63	0.92	2-3		0	7	14	10	6	nw.	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	51	39.0	-1.7	67	9	12	15	3.15	-0.47	2.25	8-9	T.	6	10	3	17	w.	Newark Water Dept.	
Chatham.....	Morris.....	185	39							3.98	+0.54	2.39	8-9		7	13	15	2		Paul Molitor, Sr.	
Chatsworth.....	Burlington.....	90	2	43.6		72	2†	17	15†	2.72		1.18	2-3		0	4	15	12	3	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	30	43.2	-1.2	71	9	20	29	3.16	+0.44	1.90	2-3	T.	4	11	7	12	n.	Worthy Hitt.	
Clinton.....	Hunterdon.....	300	0							2.87		1.79	8-9	T.	6	20	7	3	nw.	L. W. Klockner.	
Culvers Lake††.....	Sussex.....	760	42							4.15	+1.05	2.83	8-9	T.	5					L. S. Depue.	
Dover.....	Morris.....	600	59	39.7	-1.0	66	9	17	29	3.17	-0.38	2.00	8-9		0.2	8	7	16	7		William C. Harris.
Egg Harbor City.....	Atlantic.....	63	21							2.68	-1.02	1.57	3	T.	6					Chas. E. Hall.	
Elizabeth.....	Union.....	34	64	43.2	-0.7	68	9	21	15†	2.48	-0.44	1.08	8-9		0.7	8	17	4	9	ne.	Union County Park Comm.
Flemington.....	Hunterdon.....	140	\$57	42.8	-0.8	68	9	20	29	2.94	-0.01	1.27	8-9	T.	7	20	4	6	nw.	Hiram E. Deats.	
Erehold.....	Monmouth.....	194	\$39	42.6	-2.5	69	2†	17	29	2.22	-1.61	0.92	2-3		0.2	6	21	7	2	w.	Moreau Plant Co.
Hammononton.....	Atlantic.....	95	\$37	44.2	+1.8	72	1	19	30	3.63	+0.59	2.27	2-3	T.	5	20	6	4	sw.	J. G. Wilson.	
Hightstown.....	Mercer.....	110	50	43.2	-0.6	70	8	20	29	2.18	-0.73	1.08	2-3		0.5	8	15	11	4	nw.	James R. Pickering.
Indian Mills††, 2 mi. W.	Burlington.....	100	54	42.9	-1.0	71	8	12	29	2.41	-0.56	1.22	2-3	T.	6	14	12	4	nw.	Edward Entwistle.	
Jersey City.....	Hudson.....	81	45	43.5	-1.4	67	9	24	17	2.25	-0.75	0.50	9	T.	9	19	5	6	nw.	J. C. Water Dept.	
Lakewood.....	Ocean.....	54	39	44.2	+0.4	71	8	23	29	2.77	-0.32	1.02	3	T.	5	10	13	7	nw.	R. W. Holman.	
Lambertville.....	Hunterdon.....	75	56	42.2	-1.0	68	7†	18	29	3.51	+0.51	1.38	8-9	T.	5	17	9	4	nw.	Mabel Wollaston.	
Layton††, 3 miles NW.	Sussex.....	480	42	37.1	-2.4	62	6†	9	29	3.52	+0.45	2.28	8-9	T.	8	8	4	18	nw.	A. M. Depue.	
Little Falls.....	Passaic.....	157	40	41.8	-1.3	67	8	18	29	4.03	+0.63	2.46	8-9	T.	6	9	18	3	nw.	Passaic Valley Water Co.	
Long Branch.....	Monmouth.....	34	35	43.8	-0.6	66	2†	24	17	2.69	-0.87	1.18	2-3		0.1	10	11	6	13	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	13	37.0		67	8	14	17	3.78	-0.43	2.42	8-9	T.	5	19	9	2	w.	Arthur Barkman.	
Marlton, 1 mile W.....	Burlington.....	90	1							2.39		1.08	2-3	T.	9	18	8	4	sw.	David Griscorn.	
Millville.....	Cumberland.....	60	2							2.35		1.24	2-3	T.	7	23	4	3		Paul Ritchie.	
Moorestown.....	Burlington.....	62	80	42.9	-0.2	70	8	21	29	2.23	-0.68	1.24	8-9	T.	3	15	10	5	nw.	Japanese Beetle Laboratory	
Morris Plains.....	Morris.....	500	2							3.95		2.52	8-9		0.1	8	18	7	5		James C. Long.
Newark.....	Essex.....	10	89	43.2	-0.6	68	9	25	29	2.36	-0.73	0.96	8-9	T.	9	9	9	12	sw.	U. S. Weather Bureau.	
New Brunswick.....	Middlesex.....	86	89	43.4	-0.3	69	9	22	29	2.50	-0.34	1.10	8-9	T.	6	11	9	10	nw.	N. J. Experiment Station.	
New Milford††.....	Bergen.....	12	25							3.30	+0.19	1.11	9		8					Hackensack Water Co.	
Newton.....	Sussex.....	769	60	38.9	-2.0	65	8†	17	29	4.82	+1.75	3.17	8-9	T.	8	8	5	17	nw.	Irving J. Kern.	
Orange††.....	Essex.....	140	3							3.27		2.02	8-9		8					County Engineer.	
Paterson.....	Passaic.....	95	72	40.6	-3.2	68	8	22	17†	3.97	-0.85	1.81	9	T.	10	14	9	7	w.	J. W. Cook.	
Pemberton.....	Burlington.....	55	14	45.0	-1.2	71	8	24	17†	2.28	-0.82	1.06	2-3		0.2	7	16	5	9	w.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	\$60	40.4	-1.5	68	8	18	29	3.46	+0.63	2.49	8-9	T.	6	18	8	4		Town Engineer.	
Plainfield.....	Union.....	120	55	43.2	+0.3	68	9	22	29	3.15	+0.10	1.82	8-9		0.1	7	11	9	10	nw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	1							2.95		1.30	8-9	T.	6					Walker-Gordon Lab.	
Pleasantville††.....	Atlantic.....	8	\$45	42.6	-2.4	69	8	18	18	2.56	-0.26	1.53	2-3		6	19	6	5	nw.	N. J. Water Policy Comm.	
Rahway.....	Union.....	20	3							2.09		0.83	2-3		0.2	7	6	15	9	ne.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	26	41.8	-1.2	67	8	19	29	2.62	-0.22	1.24	8-9	T.	7	11	10	9	nw.	George P. Kirsten.	
Runyon††.....	Middlesex.....	18	20	39.8	-3.0	64	8†	11	29	2.66	-0.37	1.07	3		5	21	6	3	w.	N. J. Water Policy Comm.	
Sandy Hook.....	Monmouth.....	15	45	45.0	-0.8	66	9	26	17	2.41	-0.84	1.03	2-3	T.	8	10	10	10	nw.	U. S. Coast Guard.	
Somerville.....	Somerset.....	385	60	41.9	-0.9	69	7	20	29	3.74	+0.77	2.29	8-9	T.	5	21	6	3	w.	Norbert Larky.	
Sussex.....	Sussex.....	450	48	40.0	-1.4	69	20	15	29	3.41	+0.59	2.38	8-9	T.	6	8	6	16	sw.	Marshall Hunt.	
Toms River.....	Ocean.....	33	22							0.25	-3.27	0.08	5	T.	6					Robt. F. Snyder.	
Trenton.....	Mercer.....	56	71	44.0	-0.4	70	8	26	17†	2.80	+0.07	1.33	8-9		0.6	8	7	17	6	nw.	U. S. Weather Bureau.
Trenton No. 2.....	Mercer.....	105	13	44.2		69	8	22	29	2.96		1.40	8-9		0.3	9				Edward H. Ristow.	
Tuckerton.....	Ocean.....	23	50	45.8	+0.4	68	7†	25	17†	2.80	-0.20	1.58	3		0	6	17	2	11	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	68							2.45	-0.21	1.48	2-3	T.	5	13	12	5	nw.	Robert Jones.	
Westfield.....	Union.....	145	3							2.93		1.71	8-9	T.	3	20	5	5	nw.	Town Engineer.	
Woodcliff Lake††.....	Bergen.....	103	25							4.24	+1.15	2.71	9		8					Hackensack Water Co.	
Woodstown.....	Salem.....	16	8							2.50		1.40	3	T.	2	18	7	5	w.	Geo. S. Keen.	
New York, N. Y.....		10	73	44.8	+0.6	65	9	26	17	1.97	-0.99	0.76	2-3	T.	8	12	9	9	nw.	U. S. Weather Bureau.	
Philadelphia, Pa.....		10	73	43.9	0	69	8	25	17	3.72	+1.02	2.16	8-9	T.	7	7	14	9	nw.	U. S. Weather Bureau.	
For the State.....				42.4	-1.3	73	8	9	29	2.89	-0.31	3.17	8-9	T.	6	15	8	7	nw.		

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. ††Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also.

§Length of precipitation record; temperature record is much shorter.

*Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia, Pa., -12-24-43-925.

Daily Precipitation for November, 1943

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast	.49	1.14			.66			.01	.31		.20					T.						.03	.11							T.		2.95
Barnegat City ¹	Coast	.03	.05						.01	.06		.03										T.	.02										0.20
Belleplain	Tuckahoe		1.76			.10				1.00		.17	.04										.18										3.25
Belmar ²	Coast	.40	.62		.30	.25			.13	.44		.03		.01			.01					.10	.05								T.		2.34
Belvidere	Delaware	.30	.15						.78	2.23		T.			T.								.55	.04					T.				4.16
Berlin	Mullica	1.00							.05	.40		.20																					1.65
Boonton ³	Passaic		.53			.07				2.30		T.		T.			.01						.60								T.		3.51
Bridgeton	Delaware		1.25			.06			T.	.72		.33											.20										2.56
Brooklawn	do	T.	1.13						.08	1.17		.12										.42											2.92
Burlington	Delaware		.06	.85			.02		.06	1.36								.09					.03		T.								2.38
Cape Brook ³	Passaic		.77			T.				1.84	.02												.58										3.30
Cape May ^{2†}	Coast	.24	.68		.50				.06	.40		.01						T.				T.	.07										1.96
Charlotteburg	Passaic	.10				.07			.38	1.87			T.	T.			.03						.70								T.		3.15
Chatham ³	do		.87			.02				2.39					.03		.10						.56	.01									3.98
Chatsworth	Coast		1.18			.21				1.15													.18										2.72
Clayton	Delaware		1.90							.69		.28												.29									3.16
Clinton	Raritan	.47	.22						.56	1.23								.02					.37		T.								2.87
Culvers Lake	do	.31	.15						.32	2.83		T.		T.			T.						.54										4.15
Dover	Passaic	.30	.14		.06				*	2.00				T.			.01						.64	T.							.02		3.17
Egg Harbor City ²	Mullica		1.57		.05				.69			.16									.15	.06											2.68
Elizabeth	Coast	.12	.73			.05			.05	1.03							.02						.45	T.	T.						.03		2.48
Flemington	Raritan	.07	.58			.01			.43	1.27				T.	T.	T.	.10						.48										2.94
Freehold	do	.02	.90			.15			T.	.84		T.											.28	T.							.03		2.22
Hammonton	Mullica		2.27			.16				.76		.22		T.										.22									3.63
Hightstown	Raritan	.10	.98			.03			.02	.73		.01		T.	T.		T.						.30		.01								2.18
Indian Mills	Mullica	.02	1.20			.08			T.	.81		.11		T.			T.						.22		T.								2.44
Jersey City ²	Coast	.45	.40		.06	.02			.35	.50							.02					.25	.20	T.									2.25
Lakewood	Metedeconk	T.	1.02			.55			T.	.95		.04		T.									.21	T.									2.77
Lambertville	Delaware	.10	.65						.88	1.38													.50		T.								3.51
Layton	do	.36	.19						.30	1.98		.14		.02			.04							.49									3.52
Little Falls ³	Passaic		.78			.04			T.	2.46					.02		.10						.63										4.03
Long Branch ^{2†}	Coast	.56	.62		.41	.06			.33	.40		.10		T.			T.					.12	.08	T.							.01		2.69
Long Valley ³	Raritan		.55			.03				2.42			T.		T.		.03						.75										3.78
Marlton	Delaware	.08	1.00			.01			.02	.75		.11		T.			.01						.40		.01								2.39
Millville ^{2†}	Maurice	.67	.57						.12	.65		.24										.02	.08										2.35
Moorestown ³	Delaware		.97			.02				1.24							T.							T.									2.23
Morris Plains	Passaic	.15	.49			.06			.46	2.06		.02		T.	T.		.02						.69										3.95
Newark ¹	Coast	.43	.34		.05	T.			.62	.34		T.		T.		T.	.04						.40	.13	T.						.01		2.36
New Brunswick	Raritan	.01	.94			.05			.06	1.04		T.		T.	T.	T.	T.							.40		T.							2.50
New Milford ^{2†}	Hackensack	.49	.33		.09				.60	1.11							.08						.49	.11									3.30
Newton	Delaware	.36	.21						.57	3.17		.03		.02			.03						.43	T.	T.								4.82
Orange ^{2†}	Passaic		.63		.03	.01			.78	1.24							.04						*	.55									3.27
Paterson ²	Passaic	.51	.26		.06	T.			.69	1.81				.01			.12						.30	.19	.02								3.97
Pemberton	Delaware	T.	1.06			.03			T.	.77		.01		.02			T.						.37		.02								2.28
Phillipsburg	do	.34	.19						1.37	1.12		T.		T.	T.	T.	T.						.29	.15	T.				T.				3.46
Plainfield	Raritan	.35	.47			T.			.20	1.62		T.		T.	T.	T.	.05						.45	T.							.01		3.15
Plainsboro	Raritan	.05	1.10						.16	1.30													.33		.01								2.95
Pleasantville ³	Coast		1.59			.28				.30		T.	.29		.02								.14										2.56
Rahway ^{2†}	Rahway	.45	.38		.05				.30	.53							T.						.22	.16	T.								2.09
Ridgefield	Hackensack	.40	.40			.02			.07	1.17		T.		T.			.04						T.	.52	T.								2.62
Runyon	Coast		1.07			.25			.02	.99													.33										2.66
Sandy Hook ¹	Coast	.63	.40		.13	T.			.68	.31		T.		T.			.01						.23	.02	T.								2.41
Somerville	Raritan	.39	.46			T.			.33	1.96					T.	T.							.60	T.	T.								3.74
Sussex	Hudson	.32	.18						.38	2.00		.03		T.			T.						.50		T.								3.41
Toms River	Coast	.05				.08			.02			.03		.02									.05										0.25
Trenton ^{1†}	Delaware	.74	.31		.01				.35	.98				T.			T.						.34	.02	.05								2.80
Trenton No. 2 ²	Delaware	.78	.31		.02	.02			.23	1.17							.03						.36	.03	.04								2.96
Tuckerton	Coast		1.58			.12				.46		.18	.28										.18										2.80
Vineland	Maurice	T.	1.48		.04					.80		.03											.10		T.								2.45
Westfield ^{3†}	Rahway		.72		T.					1.71							T.						.50	T.								</	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight.

^{3</}

Daily Temperatures for November, 1943

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*	Maximum	60	63	60	57	60	65	60	65	64	51	45	49	40	46	56	55	43	51	56	61	55	48	42	52	62	56	58	45	40	43	53.9	
	Minimum	42	55	42	39	44	49	50	59	41	36	35	30	34	32	34	35	28	34	48	45	40	34	32	32	36	42	36	30	28	32	38.5	
Barneget City†	Maximum	57	64	59	58	59	66	65	66	63	51	49	49	50	45	55	52	47	51	62	58	64	49	43	53	59	59	57	45	43	40	54.6	
	Minimum	42	49	42	40	36	51	54	58	40	36	36	33	32	30	30	35	26	27	39	40	40	34	32	32	37	35	33	28	28	32	36.9	
Belleplain	Maximum	62	68	63	56	60	67	66	70	68	53	42	47	49	45	57	55	44	53	61	63	57	56	46	52	61	62	57	43	41	41	55.5	
	Minimum	27	34	44	31	23	45	31	32	46	27	26	25	25	27	18	38	21	24	19	19	19	19	19	19	24	21	37	19	14	25	26.6	
Belvidere	Maximum	59	53	54	55	58	61	64	66	67	48	42	42	44	41	45	43	42	46	59	53	51	45	37	49	60	58	48	42	37	39	50.3	
	Minimum	30	40	42	32	29	37	36	48	45	30	26	29	31	29	25	38	20	25	25	31	27	35	31	31	30	25	30	29	20	26	31.1	
Boonton§	Maximum	59	57	50	54	58	60	55	67	50	46	37	34	46	33	45	46	37	43	58	55	53	39	41	49	60	61	56	49	39	39	49.0	
	Minimum	29	29	43	29	28	28	34	34	49	28	28	33	33	32	23	26	24	22	25	25	26	27	31	31	34	27	26	28	18	17	28.9	
Bridgeton	Maximum	62	67	61	55	61	61	69	68	66	50	42	45	48	43	55	52	45	52	59	60	58	53	40	51	57	60	55	49	40	40	54.1	
	Minimum	37	43	47	38	32	45	39	50	48	30	32	29	34	31	25	41	24	25	33	36	35	37	31	32	31	27	31	26	22	25	34.0	
Burlington	Maximum	57	60	51	51	54	59	64	70	69	50	46	46	46	44	54	50	42	52	63	56	67	53	40	51	58	62	51	46	40	39	53.0	
	Minimum	45	43	48	44	42	43	42	50	49	33	38	31	33	32	26	41	25	30	28	34	35	37	32	31	35	27	31	30	24	28	55.1	
Canoe Brook§	Maximum	65	68	62	62	55	68	60	73	59	56	49	49	50	47	51	49	45	53	60	56	57	42	46	54	65	66	54	47	41	43	55.6	
	Minimum	25	34	41	28	25	29	37	48	25	28	26	28	27	17	28	17	18	21	23	20	25	30	26	30	20	21	20	12	13	25.7		
Cape May*	Maximum	62	62	59	55	59	62	66	64	63	49	46	50	44	55	56	42	50	56	59	56	50	41	50	57	56	58	41	40	40	40	53.2	
	Minimum	41	53	47	46	46	50	50	59	42	40	38	39	38	37	37	38	31	35	47	46	42	32	33	38	40	41	40	30	27	33	40.5	
Charlotteburg	Maximum	59	58	55	55	56	62	60	59	67	56	44	46	46	39	42	44	39	48	62	60	55	49	37	46	58	62	57	49	39	37	51.4	
	Minimum	23	33	38	30	23	30	20	45	46	27	31	26	25	24	12	35	15	18	21	26	20	30	27	32	42	27	27	13	21	21	26.5	
Chatsworth	Maximum	62	72	65	55	60	65	65	72	65	55	46	47	43	56	55	45	53	65	62	55	53	40	50	60	64	59	55	40	39	39	55.3	
	Minimum	32	47	45	32	24	50	55	48	49	48	26	27	31	22	17	43	20	29	23	29	36	29	33	19	19	17	17	17	17	27	31.8	
Clayton	Maximum	63	68	65	57	59	61	60	59	71	55	46	47	46	40	56	54	40	52	63	65	63	44	58	42	52	59	62	50	54	40	55.4	
	Minimum	34	41	47	35	34	29	30	39	31	32	28	27	32	24	35	23	25	34	29	34	27	36	32	32	32	25	29	20	28	28	31.0	
Dover	Maximum	57	55	53	53	56	60	65	66	65	45	43	45	44	43	43	40	38	47	60	55	51	45	38	47	58	60	55	45	36	37	50.2	
	Minimum	28	37	38	33	27	34	31	47	35	29	34	29	29	27	20	29	19	21	25	29	24	28	32	36	28	29	27	17	17	26	29.2	
Elizabeth	Maximum	60	65	60	59	61	67	63	66	68	54	49	50	47	45	49	51	43	50	59	54	55	52	46	53	63	62	56	46	39	41	54.5	
	Minimum	34	38	44	32	30	40	38	51	47	31	36	25	30	28	21	39	21	22	32	31	28	35	30	32	32	26	29	23	23	28	31.9	
Flemington	Maximum	63	62	59	59	59	67	61	66	68	54	46	52	48	45	48	49	43	52	63	61	58	49	42	52	65	62	57	45	38	42	54.5	
	Minimum	31	39	44	35	29	37	40	48	49	31	37	30	32	22	26	39	22	25	25	31	28	38	32	31	35	27	27	20	20	25	31.2	
Freehold	Maximum	59	62	60	57	60	64	63	69	67	50	45	47	42	42	54	50	41	52	61	56	53	41	50	59	64	57	46	39	39	39	52.3	
	Minimum	30	43	44	40	33	45	41	49	48	29	33	28	32	28	24	38	20	25	31	35	30	35	28	29	33	31	35	24	17	26	32.8	
Hammonton	Maximum	72	69	63	62	61	65	68	71	68	58	46	48	48	45	57	54	46	54	62	66	58	53	42	51	61	65	58	43	40	41	56.5	
	Minimum	31	35	38	35	29	40	36	48	49	28	35	28	35	28	25	38	21	25	31	31	30	38	32	32	32	28	32	24	19	19	31.8	
Hightstown	Maximum	62	69	60	56	61	63	64	70	68	50	45	47	47	43	54	52	41	51	61	56	53	53	41	51	60	61	56	43	38	40	53.9	
	Minimum	30	39	45	34	29	45	39	47	48	30	32	29	34	29	25	39	23	27	30	32	29	36	30	32	28	33	25	20	27	27	32.5	
Indiantown Mills	Maximum	64	70	61	55	60	65	68	71	68	50	43	48	47	44	55	54	42	53	66	59	57	51	41	50	59	64	57	46	40	41	55.0	
	Minimum	28	39	45	34	24	46	47	49	28	33	27	32	26	24	19	38	21	24	20	30	28	36	31	31	34	23	22	12	25	20	30.8	
Jersey City	Maximum	57	65	57	57	57	60	67	62	69	47	42	49	44	40	52	42	45	60	50	52	45	42	52	62	58	48	40	37	39	39	51.6	
	Minimum	39	39	48	44	43	50	45	44	37	39	38	36	34	29	32	32	24	28	38	38	35	27	29	32	34	38	35	27	25	28	35.6	
Lakewood	Maximum	62	70	62	56	59	65	62	71	68	51	46	48	48	45	57	55	44	53	65	62	52	44	53	52	59	64	58	46	37	39	55.1	
	Minimum	32	41	45	34	29	47	37	53	49	31	30	30	38	33	30	24	43	24	27	28	32	32	33	32	29	33	28	32	26	23	31	33.3
Lambertville	Maximum	61	64	57	57	59	65	68	68	68	52	46	47	46	45	52	49	40	57	58	54	55	50	40	52	60	58	54	44	41	40	53.6	
	Minimum	30	31	44	34	28	38	37	45	47	30	36	29	31	27	24	38	22	27	25	30	25	35	30	32	24	27	24	18	26	30	30.8	
Layton	Maximum	60	53	53	54	55	62	62	56	62	46	44	46	44	41	39	40	37	47	60	50	47	40	50	47	40	57	58	50	46	35	39	48.9
	Minimum	25	33	41	26	23	33	27	45	44	21	30	26	29	22	16	20	13	16	21	24	20	31	28	30	23	16	27	22	9	17	25.3	
Little Falls§	Maximum	63	62	56	60	58	66	62	67	55	52	42	48	46	43	46	49	40	49	60	55	53	40	42	55	62	63	60	42	37	40	52.4	
	Minimum	30	35	42	38	30	36	34	46	49	30	37	32	33	30	21	29	23	23	20	30	25	37	30	29	37	27	30	30	18	23	31.3	
Long Branch*	Maximum	56	66	60	57	59	64	60	65	66	51	45	48	48	42	58	50	40	50	65	56	56	46	42	51	59	61	58	42	37	39	53.2	
	Minimum	42	44	45	37	31	46	42	57	40	31	36	30	33	30	26	33	24	27	36	36	35	32	30	31	35	34	26	26	32	32	34.7	
Long Valley§	Maximum	59	52	58	60	58	66	64	67	54	55	42	49	45	44	44</																	

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CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLVIII.

DECEMBER 1943.

No. 12

GENERAL SUMMARY.

December this year was not as cold as in 1942, but averaged colder than normal throughout the State. The first decade was mild but temperature during the remainder of the month was below normal nearly every day. Some stations in north Jersey recorded freezing temperatures on every day of the month and most stations had freezing on more than 25 days. Sub-zero readings were registered at six stations. Temperature variation between the two extremities of the State was greater than usual with a mean of 36.6° at Cape May and 24.3° at Layton.

This month had the greatest number of clear days and the fewest days with precipitation of any December of record in New Jersey. Snowfall was remarkably light; only one other December of record had so little snow. The average total precipitation of 1.41 inches is also the least of record for December. This unusual combination of factors resulted in a very pleasant winter month as remarked by many people. The only precipitation of consequence was the rain of the 26-27th. At that time, glaze formed on highways over the northern part of the State.

Gale winds occurred generally on the 11th and 12th, though much stronger on the coast.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 42 stations, was 31.1°, which was 2.7° below normal. The highest temperature was 62° at Belleplain on the 9th, and the lowest, -10°, at Runyon the 24th. The highest monthly mean temperature was 36.6° at Cape May, and the lowest, 24.3°, at Layton.

The temperature departure from the normal for the year 1943 for the State was 0.0°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 62 stations, was 1.41 inches, which was 2.14 inches below normal. The average total snowfall at 25 selected stations was 0.1 inch, which was 5.2 inches below normal. The greatest monthly precipitation was 2.31 inches at Toms River, and the least, 0.22 inch at Layton. The greatest amount of precipitation in any 24 consecutive hours was 2.00 inches at Toms River on the 26-27th.

The average for the Highlands was 1.15 inches; for the Red Sandstone Plain, 1.25 inches; for the Southern Interior, 1.65 inches; and for the Sea Coast, 1.68 inches.

The precipitation accumulated departure from the normal for the year 1943, by sections, was: the Highlands, -4.78 inches; Red Sandstone Plain, -4.75 inches; Southern Interior, -7.80 inches; Sea Coast, -11.26 inches.

DATES OF MISCELLANEOUS PHENOMENA.

Heavy Fog: 31.

Sleet: 26.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.72	24	29.53	12	14.8	42	s.	12	67	53	61	57	898
Long Branch.....	30.67	24	29.46	13	13.3	52	nw.	11	63	56	44	53	1003
Trenton.....	30.71	24	29.50	13	8.7	38	n.	11	63	46	54	52	1002

COMPARATIVE DATA FOR DECEMBER.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	35.3	60	6	3.15	.....	.....	.....	.....
1886.....	29.1	60	-2	3.51	.....	.....	.....	.....
1887.....	33.7	62	5	5.29	.....	10	.....	.....
1888.....	34.9	65	5	3.69	.....	8	.....	.....
1889.....	41.5	71	8	1.62	.....	8	.....	.....
1890.....	30.9	56	3	3.89	.....	8	11	10
1891.....	40.9	71	9	4.25	.....	8	13	9
1892.....	30.4	68	1	1.87	.....	6	9	11
1893.....	34.9	70	5	3.39	.....	11	11	10
1894.....	34.8	66	-3	4.36	.....	9	12	9
1895.....	37.2	70	3	2.61	0.4	6	11	9
1896.....	31.3	64	-15	1.48	10.7	4	14	9
1897.....	35.1	69	3	4.90	3.4	11	8	11
1898.....	33.3	66	-2	3.53	2.0	9	12	10
1899.....	35.5	69	-1	2.11	0.5	7	14	10
1900.....	34.4	64	-2	2.59	4.1	6	14	10
1901.....	32.6	68	-8	7.30	2.1	11	12	9
1902.....	31.7	62	-11	7.23	9.1	13	13	7
1903.....	28.6	56	-13	4.08	9.2	9	14	9
1904.....	27.0	60	-15	3.19	21.1	12	10	7
1905.....	36.3	61	5	3.65	1.5	7	14	8
1906.....	33.0	70	-5	3.99	1.4	13	9	8
1907.....	36.6	70	-3	4.91	5.9	9	12	8
1908.....	34.0	72	1	3.63	7.8	11	10	8
1909.....	29.8	60	-15	4.45	12.6	5	14	8
1910.....	26.5	58	-14	2.79	11.3	9	11	10
1911.....	38.4	70	2	3.77	5.6	11	10	7
1912.....	36.9	68	-1	4.73	11.0	9	12	9
1913.....	37.7	63	-11	3.03	0.8	7	13	9
1914.....	31.1	66	-9	5.86	2.4	12	10	6
1915.....	31.9	64	3	4.82	13.6	8	12	9
1916.....	32.3	70	-8	4.61	12.6	11	13	8
1917.....	24.8	54	-21	3.18	11.5	8	13	7
1918.....	37.5	66	9	3.92	0.5	10	12	7
1919.....	28.8	67	-18	2.98	6.8	12	10	8
1920.....	36.4	69	7	5.10	1.0	8	11	8
1921.....	32.3	64	-4	2.37	6.2	9	13	8
1922.....	32.5	65	-8	3.86	7.3	12	9	9
1923.....	40.8	69	9	4.14	2.6	12	13	7
1924.....	32.8	68	-4	2.58	0.4	8	10	8
1925.....	34.0	61	-5	2.84	0.6	10	13	7
1926.....	28.4	52	-7	3.44	8.2	11	11	7
1927.....	35.3	70	2	4.54	T.	12	13	6
1928.....	36.3	63	3	1.64	2.7	8	15	5
1929.....	33.8	68	2	3.01	4.1	10	11	6
1930.....	33.0	60	-5	2.67	5.2	8	10	7
1931.....	39.6	72	7	2.27	0.4	9	13	5
1932.....	36.0	69	-6	3.08	10.1	13	12	6
1933.....	31.8	72	-18	3.19	7.4	12	12	5
1934.....	33.2	69	-3	2.90	0.1	8	14	7
1935.....	28.9	60	-14	1.67	9.7	9	10	8
1936.....	37.5	67	-3	6.29	0.6	12	12	6
1937.....	33.2	70	0	1.75	0.6	7	13	6
1938.....	34.8	67	1	2.80	1.4	10	11	6
1939.....	35.2	69	-1	1.54	3.9	8	10	8
1940.....	37.0	67	-4	3.00	3.1	10	12	7
1941.....	37.2	70	0	3.70	0.4	7	12	8
1942.....	30.0	67	-17	4.55	7.0	11	10	7
1943.....	31.1	62	-10	1.41	0.1	3	16	8
Period.....	33.8	72	-21	3.55	5.3	9	12	8

Climatological Data for December 1943

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	70	36.0	-0.4	59	2	12	24	1.89	-2.05	1.36	26-27	T.	4	12	7	12	w.	U. S. Weather Bureau.
Barneget City.....	Ocean.....	36	§23	34.0	.....	57	6	10	24	1.50	.....	1.48	26-27	T.	3	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	49	32.6	-3.0	62	3	1	24	1.84	-2.16	1.36	26-27	0	6	14	9	8	sw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	1	.....	.....	.....	.....	.....	.....	1.91	.....	1.65	26-27	T.	3	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	51	29.7	-1.4	55	9	5	16	1.58	-2.33	1.25	26-27	T.	4	21	5	5	.....	Miss C. S. Hixson.
Berlin.....	Camden.....	70	2	.....	.....	.....	.....	.....	.....	1.20	.....	1.00	26	.....	2	20	5	6	.....	Samuel H. McCulley.
Boonton.....	Morris.....	280	§53	28.2	-2.1	56	9	2	16	1.15	-2.55	1.03	26-27	T.	2	9	15	7	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	60	33.6	-2.6	61	3	10	16	1.99	-1.71	1.95	26-27	0	3	18	3	10	w.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	2	.....	.....	.....	.....	.....	.....	1.30	.....	1.19	26-27	3	.....	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	§57	32.6	-2.8	55	24	9	16	1.27	-2.68	1.11	26-27	T.	3	20	5	6	w.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	13	28.0	-3.7	60	9	3	24	1.09	-2.08	0.91	26-27	.....	2	15	7	9	nw.	N. J. Water Policy Comm.
Cape May.....	Cape May.....	17	55	36.6	-1.4	59	2	15	16	1.71	-0.63	1.23	26-27	0	5	17	2	12	nw.	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	51	27.6	-3.0	55	2	0	14	1.14	-2.86	1.04	26-27	T.	2	12	4	15	w.	Newark Water Dept.
Chatham.....	Morris.....	185	39	.....	.....	.....	.....	.....	.....	1.13	-3.04	0.97	26-27	T.	2	9	17	5	.....	Paul Molitor, Sr.
Chatsworth.....	Burlington.....	90	2	30.8	.....	60	3	1	24	2.08	.....	1.88	26-27	.....	3	13	14	4	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	30	33.3	-1.3	58	2	9	16	1.72	-1.97	1.72	26-27	0	2	15	2	14	n.	Worthy Hitt.
Clinton.....	Hunterdon.....	300	0	.....	.....	.....	.....	.....	.....	1.43	.....	1.28	26-27	T.	3	.....	.....	.....	.....	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	42	.....	.....	.....	.....	.....	.....	0.87	-2.47	0.84	26-27	T.	3	.....	.....	.....	.....	L. S. Dupue.
Dover.....	Morris.....	600	59	28.3	-2.1	55	9	4	16†	1.41	-2.77	1.20	26-27	0.2	5	13	14	4	.....	William C. Harris.
Egg Harbor City.....	Atlantic.....	63	21	.....	.....	.....	.....	.....	.....	1.05	-2.74	0.85	26	.....	2	.....	.....	.....	.....	Chas. E. Hall.
Elizabeth.....	Union.....	34	64	30.8	-3.0	57	9	2	24	1.40	-2.52	1.26	26-27	T.	4	21	5	5	nw.	Union County Park Comm.
Flemington.....	Hunterdon.....	140	§57	31.3	-1.7	58	9	4	16	1.30	-2.36	1.11	26-27	T.	3	20	7	4	nw.	Hiram E. Deats.
Erehold.....	Monmouth.....	194	§39	31.2	-3.8	56	9	4	16†	1.51	-2.07	1.33	26-27	T.	3	21	5	5	w.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	§37	33.2	0.0	61	3	5	24	1.96	-2.02	1.80	26-27	T.	3	20	2	9	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	110	50	31.7	-1.7	57	9	6	16†	1.21	-2.33	1.06	26-27	T.	3	14	11	6	nw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	400	54	31.4	-3.2	59	3	3	4	1.80	-2.31	1.68	26-27	0	3	14	11	6	w.	Edward Entwistle.
Jersey City.....	Hudson.....	81	45	31.4	-3.6	56	6	10	23†	1.46	-2.19	1.30	26-27	T.	4	20	7	4	nw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	39	32.8	-1.7	57	9	8	16†	1.98	-2.21	1.73	26-27	T.	3	11	10	10	w.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	56	30.8	-2.6	58	9	5	16	1.24	-2.46	1.05	26-27	T.	3	14	13	4	nw.	Mabel Wollaston.
Layton††, 3 miles NW.....	Sussex.....	480	42	24.3	-4.1	56	9	9	24	0.22	-3.15	0.17	26-27	T.	4	15	6	10	nw.	A. M. Dupue.
Little Falls.....	Passaic.....	157	40	29.8	-3.0	57	9	3	16	1.10	-2.34	0.99	26	.....	2	20	9	2	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	35	32.1	-2.6	59	3	8	24	1.65	-2.50	1.46	26-27	T.	4	11	6	14	nw.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	13	26.1	.....	57	27	3	24	1.56	-1.68	1.35	26-27	0	2	23	7	1	w.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	1	.....	.....	.....	.....	.....	.....	1.78	.....	1.64	26-27	0	3	18	5	8	sw.	David Griscom.
Millville.....	Cumberland.....	60	2	.....	.....	.....	.....	.....	.....	2.09	.....	1.87	26	.....	3	20	6	5	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	80	31.6	-2.4	56	9	9	16	1.35	-2.42	1.20	26	.....	2	12	11	8	nw.	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	2	.....	.....	.....	.....	.....	.....	1.27	.....	1.10	26-27	0.1	3	21	4	6	.....	James C. Long.
Newark.....	Essex.....	10	89	31.2	-2.5	57	9	8	24	1.47	-2.49	1.34	26-27	T.	4	14	9	8	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	89	31.8	-1.7	56	9	5	24	1.12	-2.42	0.96	26-27	T.	3	18	8	5	sw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	25	.....	.....	.....	.....	.....	.....	1.20	-1.76	1.12	26	.....	2	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	60	.....	.....	.....	.....	.....	.....	0.74*	-2.67	0.70	26-27	.....	3	.....	.....	.....	.....	Irving J. Kern.
Orange††.....	Essex.....	140	3	.....	.....	.....	.....	.....	.....	1.17	.....	1.06	26-27	.....	2	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	72	28.5	-5.0	57	9	4	16	1.07	-2.78	0.96	26-27	T.	4	17	10	4	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	14	33.4	-2.8	60	3	6	24	1.45	-1.07	1.45	26-27	0	2	16	4	11	w.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	§60	29.6	-2.2	55	9	5	16	1.37	-2.06	1.11	26-27	0.5	5	17	7	7	.....	Town Engineer.
Plainfield.....	Union.....	120	55	31.6	-3.9	57	9	7	16†	1.06	-2.81	0.91	26-27	0.3	6	11	10	10	nw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	1	.....	.....	.....	.....	.....	.....	1.06	.....	0.84	26-27	0	3	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	§45	31.2	-4.3	61	2	2	24	2.04	-1.89	1.58	27	.....	3	16	12	3	nw.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	3	.....	.....	.....	.....	.....	.....	1.22	.....	1.10	26	.....	3	.....	.....	.....	.....	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	26	29.6	-2.7	56	9	5	16	1.58	-2.23	1.45	26-27	0.3	6	16	10	5	nw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	20	26.6	-5.8	58	9	10	24	1.36	-1.59	1.18	26	.....	3	19	7	5	w.	N. J. Water Policy Comm.
Sandy Hook.....	Monmouth.....	15	45	33.0	-2.2	53	3†	11	23†	1.39	-2.65	1.27	26-27	T.	3	11	12	8	nw.	U. S. Coast Guard.
Somerville.....	Somerset.....	385	60	30.0	-2.8	54	5	1	24	0.92	-2.79	0.77	26-27	T.	4	12	8	11	n.	Norbert Larky.
Sussex.....	Sussex.....	450	48	27.4	-2.8	56	9	0	16†	0.80	-2.17	0.80	26-27	T.	2	13	6	12	w.	Marshall Hunt.
Toms River.....	Ocean.....	33	22	.....	.....	.....	.....	.....	.....	2.31	-2.05	2.00	26-27	0	3	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	71	32.8	-1.6	57	9	11	24	1.03	-2.32	0.89	26-27	T.	3	11	13	7	n.	U. S. Weather Bureau.
Trenton No. 2.....	Mercer.....	105	13	32.8	.....	60	4	10	16†	1.1†	.....	0.96	26	.....	2	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	50	35.0	-1.2	60	2†	6	24	1.76	-2.57	1.38	26-27	T.	3	17	7	7	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	63	.....	.....	.....	.....	.....	.....	2.01	-1.62	1.84	26-27	0	3	18	9	4	nw.	Robert Jones.
Westfield.....	Union.....	145	3	.....	.....	.....	.....	.....	.....	1.12	.....	0.96	26	.....	2	17	6	8	nw.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	25	.....	.....	.....	.....	.....	.....	1.20	-1.81	1.12	26-27	.....	2	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	8	.....	.....	.....	.....	.....	.....	1.82	.....	1.82	26-27	.....	2	.....	.....	.....	.....	Geo. S. Keen.
New York, N. Y.....	.....	10	73	32.6	-2.4	56	9	9	24	1.42	-2.20	1.27	26	0.1	4	15	6	10	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	73	32.8	-1.8	57	9	10	24	1.23	-2.20	1.09	26-27	T.	3	9	13	9	nw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	31.1	-2.7	62	9	-10	24	1.41	-2.14	2.00	26-27	0.1	3	16	8	7	nw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. ††Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, *, †, ‡, etc., appearing in the table indicate the number of days missing; for example, † represents 2 days, etc.

†On other dates also. §Length of precipitation record; temperature record is much shorter. *Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia, Pa.,—1-25-44-925.

Daily Precipitation for December 1943

Stations	Drainage Basin	Day of month																														Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
Atlantic City ^{1†}	Coast			.01	T.		.52		T.	T.	T.	T.															1.35	.01					1.89	
Barnegat City ⁴	Coast						.02																				1.47	.01					1.50	
Belleplain	Tuckahoe				.04			.30		.04	.10			T.		T.												.32	1.04				1.84	
B-lmar ²	Coast						.26						T.															1.63	.02				1.91	
Belvidere	Delaware						.25					.08																.33	.92				1.58	
Berlin	Mullica																																	
Boonton ³	Passaic	T.			T.			.12		T.		T.		T.								T.							1.03				1.15	
Bridgeton	Delaware			T.			.04	T.																			1.25	.70					1.99	
Brooklawn	do						.11																				1.03	.16					1.30	
Burlington	Delaware						.16					T.																.48	.63				1.27	
Canoe Brook ³	Passaic							.18				T.																	.91				1.09	
Cape May ^{1†}	Coast			.03			.32			T.	.13																	1.22	.01				1.71	
Charlotteburg	Passaic							.10						T.														T.	1.04				1.14	
Chatham ³	do	T.					.16					T.		T.								T.							.97	T.			1.13	
Chatsworth	Coast						.20																					.22	1.66				2.08	
Clayton	Delaware																											.50	1.22				1.72	
Clinton	Raritan						.02	.13				T.		T.															.12	1.16			1.43	
Culvers Lake	do						T.	.03				T.		T.															.13	.71			0.87	
Dover	Passaic			.03			.16	T.				.02										T.			T.				*	1.20			1.41	
Egg Harbor City ²	Mullica						.20																					.85					1.05	
Elizabeth	Coast						.01	.13				T.		T.															.27	.99			1.40	
Flemington	Raritan		T.				T.	.19					T.		T.														.22	.89			1.30	
Freehold	do						T.	.18				T.		T.															.33	1.00			1.51	
Hammonton	Mullica							.16						T.		T.													.65	1.15			1.96	
Hightstown	Raritan						T.	.15				T.		T.								T.							.36	.70			1.21	
Indian Mills	Mullica			T.			T.	.12																					.42	1.26			1.80	
Jersey City ²	Coast						.14	.02			T.			T.								T.						1.25	.05			1.46		
Lakewood	Metedeconk			T.			T.	.25				T.																	.40	1.33			1.98	
Lambertville	Delaware						T.	.19				T.		T.															.35	.70			1.24	
Layton	do			.04	T.		.01	T.				T.		T.															*	.17			0.22	
Little Falls ³	Passaic							.11		T.				T.									T.							.99			1.10	
Long Branch ^{2†}	Coast						.18					.01	T.															1.44	.02				1.65	
Long Valley ³	Raritan							.21																						1.35			1.56	
Marlton	Delaware							.14																					.38	1.26			1.78	
Millville ^{2†}	Maurice			.02			.20																					1.87					2.09	
Moorestown ³	Delaware						.15																							1.20			1.35	
Morris Plains	Passaic			T.				.17				T.		T.								T.							.03	1.07			1.27	
Newark ¹	Coast		T.	T.			.12	.01	T.			T.		T.								T.						1.29	.05				1.47	
New Brunswick	Raritan						T.	.16				T.																	.28	.68			1.12	
New Milford ^{2†}	Hackensack							.08																				1.12					1.20	
Newton	Delaware						.04																						.20	.50			0.74	
Orange ^{2†}	Passaic						.11																							1.06			1.17	
Paterson ²	Passaic						.10		T.			T.		.01								T.							.94	.02			1.07	
Pemberton	Delaware																												.50	.95			1.45	
Phillipsburg	do						.19	.04				T.		.03															.96	.15			1.37	
Plainfield	Raritan		T.				.09	.03				.02	.01									T.							*	.91			1.06	
Plainsboro	do						T.	.22																					.24	.60			1.06	
Pleasantville ³	Coast				.05			.41		T.				T.																1.58			2.04	
Rahway ^{2†}	Rahway						.11	.01	T.			T.		T.														1.10					1.22	
Ridgefield	Hackensack						.05	.04					.01																*	1.45			1.58	
Rumyon	Coast						.18															T.								.20	.98			1.36
Sandy Hook ^{4†}	do			T.			.12					T.		T.														1.25	.02				1.39	
Somerville	Raritan						.05	.10				T.		T.															.39	.38			0.92	
Sussex	Hudson			T.			T.	T.				T.		T.								T.		T.					.10	.70			0.80	
Toms River	Coast					T.	.31																						.75	1.25			2.31	
Trenton ^{1†}	Delaware						.14					T.		T.															.87	.02			1.03	
Trenton No. 2 ²	do						.16						T.		T.							T.							.96				1.12	
Tuckerton	Coast							.38																					.18	1.20			1.76	
Vineland	Maurice						.17																	T.						.50	1.34			2.01
Westfield ^{3†}	Rahway						.16					T.		T.																.96			1.12	
Woodcliff Lake ^{3†}	Hackensack							.08																						1.12			1.20	
Woodstown	Delaware																												.50	1.32			1.82	
New York, N. Y. ^{1†}	Coast		T.	T.			.13	.01	T.			.01		T.								T.						1.27	T.				1.42	
Phila., Pa. ^{1†}	Delaware			T.			.14					T.		T.														1.08	.01				1.23	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight.

³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. ⁴ Precipitation is from 1:30 a. m. to 1:30 a. m. † Precipitation measured with recording gage. * Included in the next following measurement T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time

Amounts in italics are estimated.

Daily Temperatures for December 1943

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum... 49	59	56	49	57	53	52	53	58	50	40	47	43	39	27	29	33	44	44	42	45	44	27	30	34	52	50	42	30	34	40	43.6	
	Minimum... 33	45	45	41	39	37	36	35	50	39	20	21	24	23	16	14	17	25	28	31	33	25	16	12	25	28	39	25	19	18	24	28.5	
Barneget City†.....	Maximum... 50	55	55	50	53	57	51	51	55	51	38	47	40	41	31	29	35	45	48	44	49	41	28	30	35	44	49	44	30	33	40	43.5	
	Minimum... 33	36	38	38	36	35	33	30	44	39	14	18	21	25	12	12	12	20	21	25	23	22	12	10	18	24	36	26	18	12	21	24.5	
Belleplaine.....	Maximum... 48	58	62	56	55	56	55	56	59	57	41	48	47	41	35	28	33	45	48	42	49	47	39	36	35	45	51	48	38	48	38	46.6	
	Minimum... 23	26	24	29	46	25	36	23	41	34	20	7	25	5	11	4	5	14	7	26	14	20	5	1	6	15	35	28	12	5	5	18.6	
Belvidere.....	Maximum... 46	48	45	46	50	47	44	39	55	50	37	35	34	31	25	28	32	41	42	38	43	41	31	30	32	34	50	45	35	34	35	39.5	
	Minimum... 33	25	30	24	31	31	33	25	36	81	14	12	16	13	9	5	13	19	17	25	21	23	12	6	9	12	33	24	12	12	12	19.9	
Boonton§.....	Maximum... 48	52	50	50	49	49	44	50	56	43	20	39	22	32	21	27	33	42	43	37	45	39	21	29	34	40	50	38	30	35	37	38.9	
	Minimum... 28	23	26	27	24	29	30	22	26	36	18	9	15	7	10	2	8	12	14	13	22	24	13	6	3	12	15	36	12	10	9	17.5	
Bridgeton.....	Maximum... 47	58	61	53	53	52	51	53	59	51	40	42	42	36	30	28	32	43	47	41	50	45	30	29	35	47	48	43	33	33	38	43.5	
	Minimum... 27	30	31	37	33	30	40	29	44	37	22	14	25	14	13	10	12	19	17	25	21	30	15	11	15	22	35	32	18	15	16	23.8	
Burlington.....	Maximum... 47	55	55	50	53	49	50	42	55	43	42	39	38	32	32	32	33	36	39	40	49	46	35	30	33	41	50	45	31	36	36	41.7	
	Minimum... 38	28	30	34	30	36	39	32	39	39	24	17	23	14	12	9	13	20	15	27	22	26	15	11	10	19	37	30	11	15	15	23.5	
Canoe Brook§.....	Maximum... 52	55	56	52	57	54	48	48	60	47	22	40	27	34	23	29	32	37	50	45	49	42	26	34	38	43	52	41	33	41	41	42.2	
	Minimum... 26	21	23	19	18	25	29	19	26	26	15	6	15	5	7	1	0	10	8	13	22	16	9	3	0	11	16	34	10	6	3	14.0	
Cape May*.....	Maximum... 48	59	55	50	53	53	51	51	56	50	42	47	44	39	27	28	32	43	45	40	48	45	27	28	34	58	48	44	30	37	43	43.5	
	Minimum... 36	43	40	43	39	39	37	38	48	38	22	22	25	24	18	15	23	29	29	33	35	26	17	18	26	32	38	25	19	17	27	29.7	
Charlotteburg.....	Maximum... 46	55	52	50	48	44	45	40	54	54	41	34	32	31	29	23	29	39	42	41	45	41	30	26	33	35	47	43	27	35	35	39.5	
	Minimum... 28	19	25	17	34	21	35	17	37	32	11	2	11	0	3	1	5	13	8	27	19	24	10	1	2	13	31	24	6	10	2	15.8	
Chatsworth.....	Maximum... 46	56	60	54	54	53	53	53	56	55	40	44	43	36	28	28	32	42	48	40	50	48	37	28	35	43	50	47	33	36	37	44.0	
	Minimum... 29	31	24	30	29	23	42	19	40	38	19	6	20	4	11	4	16	7	12	11	23	8	1	2	13	36	31	13	9	6	17.6		
Clayton.....	Maximum... 48	58	57	53	55	54	53	50	57	56	41	47	48	36	36	29	33	34	36	48	50	51	39	29	32	34	50	48	37	37	38	44.3	
	Minimum... 32	28	31	34	30	29	44	26	41	39	21	13	20	11	12	9	14	20	22	14	18	30	13	10	20	22	11	32	12	17	15	22.3	
Dover.....	Maximum... 46	51	53	47	47	46	46	46	55	44	35	35	28	31	23	27	31	40	42	37	44	38	25	26	33	38	46	43	28	33	35	38.7	
	Minimum... 27	23	28	22	32	30	26	22	35	31	10	9	10	7	6	4	9	20	14	26	23	18	8	4	9	17	30	24	9	12	9	17.9	
Elizabeth.....	Maximum... 50	50	51	50	54	51	47	44	57	53	36	37	39	32	27	31	34	41	46	42	48	44	33	31	34	38	54	45	31	37	40	42.2	
	Minimum... 30	26	29	26	28	28	35	25	39	30	15	11	19	11	11	5	8	15	16	18	20	23	11	2	9	20	33	26	13	11	13	19.5	
Flemington.....	Maximum... 49	53	51	50	55	47	47	40	58	45	42	42	44	37	32	31	34	44	47	42	48	45	34	33	34	33	52	45	34	40	38	42.8	
	Minimum... 33	25	29	25	32	27	38	24	37	31	16	12	19	12	10	4	13	17	14	20	20	12	6	7	18	32	22	13	13	13	19.8		
Freehold.....	Maximum... 47	54	55	50	52	52	52	45	56	50	39	40	38	32	28	27	33	41	43	40	50	47	33	28	35	43	50	43	29	37	42.1		
	Minimum... 30	29	35	31	28	27	29	24	38	34	15	10	18	11	9	4	12	19	19	26	20	23	11	4	11	21	35	27	13	11	14	20.4	
Hammonton.....	Maximum... 49	45	61	52	54	55	52	50	56	52	43	48	40	36	34	28	36	46	48	48	50	48	37	29	33	47	50	42	30	37	39	44.4	
	Minimum... 29	31	32	33	34	37	40	25	41	41	21	12	25	10	12	9	11	16	14	24	22	27	11	5	12	18	26	16	13	13	21.9		
Hightstown.....	Maximum... 47	51	53	51	53	52	50	43	57	52	41	41	39	32	29	29	32	41	45	41	49	47	35	30	34	39	50	45	30	37	38	42.4	
	Minimum... 31	30	28	29	31	27	36	24	38	34	17	12	19	12	10	6	13	19	14	24	23	23	10	6	12	18	36	30	15	12	13	21.0	
Indian Mills.....	Maximum... 47	58	50	52	53	54	53	49	57	52	39	47	40	37	30	28	33	43	48	41	51	49	36	30	34	44	50	46	30	39	38	44.1	
	Minimum... 26	26	26	28	31	23	39	19	39	38	20	7	21	8	11	3	5	12	8	24	22	26	8	3	7	15	37	30	15	5	7	18.8	
Jersey City.....	Maximum... 45	45	52	50	48	56	47	48	43	47	37	29	33	30	28	28	29	39	42	48	40	44	40	24	30	34	40	46	39	28	46	45	39.6
	Minimum... 33	32	36	34	35	34	30	34	32	30	15	15	12	19	13	13	18	22	25	28	29	19	10	10	18	24	32	19	12	17	18	23.2	
Lakewood.....	Maximum... 48	56	53	53	53	53	52	51	57	53	41	43	39	36	43	30	29	34	41	48	43	51	49	37	39	34	44	49	45	30	35	38	43.7
	Minimum... 32	26	30	30	28	26	37	25	42	38	18	10	23	11	13	8	13	23	14	24	21	18	10	20	20	37	30	16	14	12	21.9		
Lambertville.....	Maximum... 47	52	48	49	54	47	45	39	58	52	38	41	39	36	33	29	34	43	44	41	48	45	28	32	32	36	50	44	35	38	37	41.7	
	Minimum... 32	25	29	25	26	28	25	24	37	33	16	13	19	14	9	5	12	18	14	19	22	20	12	10	17	34	26	14	12	12	19.8		
Layton.....	Maximum... 42	55	37	45	44	40	45	35	56	47	35	31	31	30	29	22	31	38	42	37	44	40	23	27	32	32	42	38	35	35	37.2		
	Minimum... 27	18	23	16	30	27	31	14	32	27	9	9	1	4	6	1	4	11	17	16	18	0	9	1	7	15	18	1	3	3	1	10.4	
Little Falls§.....	Maximum... 47	54	49	50	51	47	43	49	57	44	32	37	22	33	22	29	33	41	44	28	47	39	29	32	39	42	41	51	36	28	37	40.4	
	Minimum... 27	24	29	24	28	30	32	23	29	35	15	10	16	10	10	8	16	17	14	22	27	22	13	7	9	15	32	33	11	11	11	19.6	
Long Branch*.....	Maximum... 47	54	59	47	53	53	50	50	57	45	39	42	39	35	24	28	33	40	48	40	51	40	24	28	34	45	50	42	28	32	36	41.7	
	Minimum... 30	32	32	32	37	29	26	41	35	12	12	17	16	15	11	13	21	20	26	22	13	8	15	23	36	22	16	17	15	22	15	22.5	
Long Valley§.....	Maximum... 44	40	53	47																													

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UNNJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION,

A. E. WHITE

TRENTON, N. J.

VOL. XLVIII.

ANNUAL SUMMARY, 1943.

No. 13.

GENERAL SUMMARY.

Temperature for 1943 in New Jersey averaged exactly normal, 52.0°, while precipitation was 85 percent of the normal amount. Outstanding features of 1943 weather were a severe but short cold period during the middle of February, the hottest June of record with a severe heat wave lasting about two weeks, droughty conditions through August and September, followed by one of the four wettest Octobers of record, and the driest December of record in New Jersey. The strongest winds occurred on April 19, and September 30, when Atlantic City registered a maximum velocity of 61 miles per hour, and October 26, when a maximum of 60 miles an hour was registered at Long Branch. Moderate damage occurred at these times in coastal areas. On the last named date, a number of shipping vessels were beached and damaged by the winds and high tides. The highest water in the Delaware River occurred on the first day of the year, but there was no flooding of importance.

WEATHER BY MONTHS

JANUARY: Slightly below normal in both temperature and precipitation, but only two stations had temperatures below zero. Heavy snow and sleet on the 27-28th in central and north Jersey greatly hindered traffic.

FEBRUARY: Averaged warmer than normal but was unusually cold on the 15-16th, with temperature below zero over most of the State. The month was dry with precipitation only 57 percent of normal; snowfall was light.

MARCH: Precipitation was 80 percent of normal and temperature about normal but sub-zero readings were made at four stations, and -10° was recorded at Charlotteburg on the 9th. Unusual heat occurred in South Jersey on the 31st, the highest temperature being 85° at Bridgeton.

APRIL: This was the coldest April, with one exception, since 1885. Only traces of snow fell and precipitation was 77 percent of normal.

MAY: This was the first month of 1943 with more than normal precipitation, 134 percent. It was slightly warmer than normal but sunshine was deficient.

JUNE: Hottest June of record in New Jersey with a severe heat wave from 13th to 28th; temperature reached 100° at seven stations. It was slightly drier than normal.

JULY: Temperature averaged same as in June but there was no heat wave so severe as that of June. Rainfall averaged 90 percent of normal but heavy rains of 4.00 to 6.00 inches fell on the 7th in south-central Jersey.

AUGUST: Warmer than normal but no extended heat wave. It was the driest August since 1925.

SEPTEMBER: Slightly cooler and much drier than normal. It was the fourth successive month with deficient rainfall causing

early maturity and light yields of some crops. A tropical storm on the 30th caused gale winds and abnormally high tides along with moderate rainfall.

OCTOBER: Fourth wettest October of record. A slow moving tropical storm caused very heavy rains on and near the coast on the 25-26th. At the same time, there were strong winds and abnormally high tides; several vessels were beached and damaged.

NOVEMBER: Slightly cooler and drier than normal. Snowfall was only a trace at most stations.

DECEMBER: The month was colder than normal; it was the driest and clearest, and had the fewest days with precipitation of any December of record in New Jersey. Snowfall averaged barely a tenth of an inch.

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	50.4	100	-2	37.87	.....	.....	.....	.....	.....
1886.....	50.8	98	-10	46.54	.....	.....	.....	.....	.....
1887.....	51.3	102	-6	47.66	.....	.....	.....	.....	.....
1888.....	50.2	99	-12	52.20	.....	.....	.....	.....	.....
1889.....	52.8	95	-3	63.33	.....	.....	.....	.....	.....
1890.....	53.1	101	0	49.34	.....	.....	.....	.....	.....
1891.....	53.2	102	1	47.98	.....	.....	.....	.....	.....
1892.....	51.5	105	-6	42.04	.....	.....	.....	.....	.....
1893.....	50.7	103	-21	47.90	.....	.....	.....	.....	.....
1894.....	53.0	106	-11	47.37	.....	.....	.....	.....	.....
1895.....	51.5	109	-12	37.29	25.7	.....	.....	.....	.....
1896.....	52.1	105	-15	42.51	39.5	.....	.....	.....	.....
1897.....	52.0	102	-6	51.72	25.8	.....	.....	.....	.....
1898.....	53.1	107	-15	52.35	34.3	.....	.....	.....	.....
1899.....	52.1	103	-21	45.84	44.3	107	148	120	97
1900.....	53.8	104	-9	42.71	23.3	108	146	127	92
1901.....	51.3	107	-12	51.80	14.1	116	141	116	108
1902.....	51.9	100	-11	59.44	40.1	124	148	116	101
1903.....	51.7	100	-16	56.25	22.3	116	151	108	106
1904.....	49.2	100	-34	43.78	48.5	113	160	107	99
1905.....	51.2	102	-18	42.06	32.9	109	160	114	91
1906.....	52.7	98	-15	46.38	23.4	121	146	112	107
1907.....	50.3	96	-22	51.65	54.1	128	141	99	125
1908.....	52.6	106	-17	42.58	35.3	103	145	115	106
1909.....	51.9	100	-15	40.86	29.9	114	137	116	112
1910.....	51.8	99	-15	39.73	33.3	114	123	123	119
1911.....	52.6	104	-12	50.36	30.0	129	121	121	123
1912.....	51.3	100	-32	46.61	35.1	115	137	124	105
1913.....	54.0	100	-11	46.99	5.2	111	173	97	95
1914.....	51.2	99	-12	39.23	41.1	107	149	108	108
1915.....	52.4	98	3	47.37	39.4	114	145	115	105
1916.....	51.0	100	-18	38.17	49.6	121	159	100	107
1917.....	49.5	104	-21	40.80	40.4	117	166	96	103
1918.....	51.6	108	-23	37.65	25.3	108	167	96	102
1919.....	52.6	103	-11	52.10	10.9	131	161	80	124
1920.....	51.2	98	-17	51.87	33.4	127	158	94	114
1921.....	54.2	100	-5	38.16	23.0	115	167	90	108
1922.....	52.6	98	-11	41.57	30.8	119	169	90	106
1923.....	51.9	106	-14	40.38	39.8	112	172	92	101
1924.....	50.6	102	-6	44.17	24.3	102	177	96	93
1925.....	52.2	103	-20	42.15	26.8	111	165	97	103
1926.....	50.0	105	-11	44.41	32.2	122	157	95	113
1927.....	52.0	99	-12	49.68	13.7	125	156	90	119
1928.....	52.0	99	-15	46.22	21.5	125	158	97	111
1929.....	52.3	102	-9	42.96	16.0	118	162	87	116
1930.....	52.7	105	-14	35.28	15.6	99	172	89	104
1931.....	54.4	102	-9	37.07	8.6	106	169	82	114
1932.....	53.4	100	-10	46.80	16.3	111	169	95	112
1933.....	52.9	105	-18	49.80	21.5	121	158	88	119
1934.....	51.6	103	-26	45.43	32.7	117	169	85	111
1935.....	51.6	101	-31	42.32	36.2	118	155	89	121
1936.....	52.3	110	-17	47.57	22.1	119	163	87	116
1937.....	53.0	103	0	47.61	11.1	124	161	84	120
1938.....	53.3	100	-19	52.52	23.1	133	151	88	126
1939.....	53.0	99	-10	42.95	18.4	113	152	92	121
1940.....	50.1	104	-13	48.43	28.1	121	144	92	130
1941.....	53.0	105	-7	37.23	32.6	98	192	82	91
1942.....	52.6	105	-23	50.52	16.8	108	158	90	117
1943.....	52.0	102	-25	39.02	17.7	102	145	102	118
Period.....	52.0	110	-34	45.72	28.4	116	155	100	110

Climatological Data for the Year 1943

STATION	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)						Total snowfall (unmelted)	Number days with .01 or more	Sky			Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month			Number clear days	Number partly cloudy days	Number cloudy days	
Atlantic City	Atlantic	8	70	53.4	96	June 4	6	Feb. 15	70	37.93	7.93	Oct.	0.44	Aug.	5.3	113	120	113	132	s.
Barnegat City	Ocean	36	4	52.0	95	do. 4	3	do. 15†	4	25.79	5.06	do.	0.20	Nov.	8.1	84	120	113	132	sw.
Belleplain	Cape May	49	49	51.6	101	do. 21	-6	do. 16	49	34.95	7.30	do.	0.89	Aug.	6.0	89	181	102	82	s.
Belmar	Monmouth	19	51	51.6	100	June 25	-10	Feb. 15	51	38.89	8.92	do.	1.46	June	27.4	129	196	71	98	w.
Belvidere	Warren	289	51	51.6	100	June 25	-10	Feb. 15	51	46.51	7.46	do.	0.47	Sept.	27.4	108	196	71	98	sw.
Berlin	Camden	70	55	54.6	97	do. 26†	2	do. 16	2	28.61	6.67	do.	0.30	Aug.	6.9	94	167	39	159	nw.
Boonton	Morris	280	35	49.1	96	June 25	-18	Feb. 16	53	37.93	6.54	do.	1.15	Dec.	9.0	74	167	39	159	nw.
Bridgeton	Cumberland	30	55	54.6	97	do. 26†	2	do. 16	60	33.62	5.87	do.	0.79	Aug.	11.7	111	167	39	159	nw.
Brooklawn	Camden	30	31	54.8	98	July 23	8	Feb. 15	2	34.95	5.93	do.	0.23	Sept.	11.7	96	167	39	159	nw.
Burlington	Burlington	12	31	54.8	98	July 23	8	Feb. 15	57	34.17	6.42	May	0.48	Sept.	11.7	96	167	39	159	sw.
Canoe Brook	Essex	180	13	49.7	102	June 26	-18	do. 16	13	43.04	7.86	Oct.	1.09	Dec.	5.3	115	184	68	113	nw.
Cape May	Cape May	17	18	53.9	91	do. 3	9	do. 15	55	27.10	4.20	do.	0.68	July	34.1	107	127	106	132	nw.
Charlotteburg	Passaic	760	51	48.7	98	do. 26	-25	do. 16	51	39.45	7.50	do.	1.04	Sept.	34.1	118	146	45	174	w.
Chatham	Morris	185	3	53.0	101	June 26	-6	Feb. 16	39	42.94	7.22	do.	1.13	Dec.	25.9	119	177	110	78	sw.
Chatsworth	Burlington	90	3	53.0	101	June 26	-6	Feb. 16	3	37.52	9.10	do.	0.55	Aug.	21.3	76	134	150	81	w.
Clayton	Gloucester	120	30	54.4	97	Sept. 7	2	do. 15	30	37.17	6.93	do.	0.57	Aug.	21.3	67	137	52	176	n.
Culvers Lake	Sussex	760	59	49.0	94	June 25	-15	Feb. 16	42	34.71	5.96	Oct.	0.87	Dec.	27.9	93	107	79	156	sw.
Dover	Morris	600	59	49.0	94	June 25	-15	Feb. 16	59	44.75	8.57	do.	1.51	Nov.	30.5	107	79	156	130	sw.
Egg Harbor City	Atlantic	63	59	52.8	99	do. 25	-11	Feb. 15	21	42.34	7.90	do.	0.66	Aug.	18.4	116	191	86	88	sw.
Elizabeth	Union	34	59	52.8	99	do. 25	-11	Feb. 15	64	46.46	9.74	do.	1.40	Dec.	20.5	112	191	86	88	sw.
Flemington	Hunterdon	140	46	52.8	99	do. 25	-7	do. 15	57	39.92	6.62	do.	0.86	Sept.	20.5	116	191	86	88	sw.
Freehold	Monmouth	194	12	52.3	97	do. 26	-5	do. 15	39	37.29	9.73	do.	1.24	Sept.	17.2	103	191	86	88	sw.
Hammononton	Atlantic	95	11	53.0	99	do. 26	-6	do. 16	37	44.45	9.47	July	0.50	Aug.	15.0	108	191	86	88	sw.
Hightstown	Mercer	110	47	52.5	96	do. 26	-3	do. 15	50	34.80	5.80	Oct.	1.10	Sept.	15.5	108	155	127	83	sw.
Indian Mills	Burlington	100	53	53.0	100	do. 21	-5	do. 16	53	36.07	7.55	do.	0.57	Aug.	12.4	103	139	152	74	w.
Jersey City	Hudson	81	45	53.3	98	June 26†	-3	Feb. 16	45	46.26	13.94	do.	1.14	Dec.	13.5	111	110	120	135	sw.
Lakewood	Ocean	54	39	53.3	98	June 26†	-3	Feb. 16	39	46.26	13.94	do.	1.14	Dec.	13.5	111	110	120	135	sw.
Lambertsville	Hunterdon	75	56	52.4	96	do. 26	-3	do. 15	56	41.14	7.28	May	0.91	Sept.	10.9	96	198	94	73	sw.
Layton-3 mi. NW	Sussex	480	42	48.0	98	do. 25	-10	Feb. 16	42	30.21	6.49	Oct.	0.22	Dec.	31.4	97	137	62	166	s.
Little Falls	Passaic	157	29	51.3	99	do. 25	-10	Feb. 16	40	43.83	8.92	do.	1.10	Dec.	25.9	129	148	132	85	nw.
Long Branch	Monmouth	34	35	52.1	98	do. 26	-6	do. 15	35	40.46	9.53	do.	1.65	Dec.	21.3	116	109	109	147	w.
Long Valley	Morris	660	13	47.8	97	June 26	-24	Feb. 16	13	45.53	7.67	Oct.	0.77	Sept.	33.0	100	191	86	88	sw.
Marlton-1 mi. W.	Burlington	90	80	52.8	95	June 25†	1	Feb. 16	2	42.10	7.21	do.	0.51	Sept.	16.4	112	191	86	88	sw.
Millville	Cumberland	60	80	52.8	95	June 25†	1	Feb. 16	3	31.77	5.90	do.	0.77	Sept.	16.4	112	191	86	88	sw.
Moorestown	Burlington	62	80	52.8	95	June 25†	1	Feb. 16	80	38.99	8.37	May	0.30	Sept.	13.0	90	171	104	90	nw.
Morris Plains	Morris	500	100	52.3	102	June 26	-7	Feb. 15	2	46.32	9.42	Oct.	1.27	Dec.	26.9	112	191	86	88	sw.
Newark	Essex	100	44	52.3	102	June 26	-7	Feb. 15	89	43.38	8.20	do.	1.47	Dec.	19.9	116	101	124	140	sw.
New Brunswick	Middlesex	86	86	52.7	96	do. 26	-6	do. 15	90	36.71	6.46	do.	1.12	Dec.	11.5	108	158	99	108	sw.
New Milford	Bergen	12	60	48.8	96	June 25	-16	Feb. 15	25	43.43	8.71	do.	1.20	Dec.	11.5	112	120	84	161	sw.
Newton	Sussex	769	60	48.8	96	June 25	-16	Feb. 15	57	42.09	8.96	do.	0.34	Sept.	35.2	129	120	84	161	sw.
Orange	Essex	140	60	48.8	96	June 25	-16	Feb. 15	3	41.90	8.85	do.	1.17	Dec.	11.5	115	120	84	161	sw.
Paterson	Passaic	95	73	50.4	98	June 25†	-14	do. 15†	72	41.94	8.44	do.	1.07	Dec.	11.5	115	120	84	161	sw.
Pemberton	Burlington	55	14	54.4	98	Sept. 7	0	do. 16	14	40.33	7.00	July	0.64	Aug.	12.5	123	134	137	94	w.
Phillipsburg	Warren	182	52	50.6	97	Aug. 8	-7	do. 15	60	42.28	6.19	May	0.53	Sept.	21.1	111	171	59	135	w.
Plainfield	Union	120	52	52.4	99	June 26	-8	do. 15	55	41.10	7.68	Oct.	1.06	Dec.	19.1	102	176	96	93	nw.
Plainsboro	Middlesex	110	52	52.4	99	June 26	-8	do. 15	55	41.10	7.68	Oct.	1.06	Dec.	19.1	102	176	96	93	nw.
Pleasantville	Atlantic	8	20	52.1	96	June 4†	-7	Feb. 16	2	39.03	6.31	July	1.06	Dec.	10.7	96	194	82	89	nw.
Rahway	Union	20	26	51.3	100	June 25	-9	Feb. 15	4	39.75	7.86	do.	1.22	Dec.	20.7	85	75	172	118	nw.
Ridgefield	Bergen	80	26	51.3	100	June 25	-9	Feb. 15	26	42.50	9.43	do.	1.58	Dec.	25.8	105	130	132	103	nw.
Runyon	Middlesex	18	19	51.6	97	do. 26	-10	do. 16†	20	35.19	8.10	do.	1.36	Dec.	25.8	86	130	132	103	w.
Sandy Hook	Monmouth	15	45	52.7	99	do. 26	-5	do. 15	45	34.04	9.03	do.	1.24	Feb.	10.4	101	161	107	97	nw.
Somerville	Somerset	385	57	51.7	99	do. 26	-10	do. 15	60	40.81	7.20	July	0.92	Dec.	17.7	100	195	74	96	w.
Sussex	Sussex	450	45	49.5	98	do. 25	-20	do. 16	48	35.11	6.39	Oct.	0.80	Dec.	28.6	121	153	56	156	w.
Toms River	Ocean	33	71	53.0	96	June 25	-2	Feb. 15	22	44.77	11.65	do.	0.25	Nov.	14.7	95	194	82	89	nw.
Trenton	Mercer	56	71	53.0	96	June 25	-2	Feb. 15	71	32.62	5.12	do.	1.03	Dec.	12.7	110	86	159	120	nw.
Trenton No. 2	Mercer	105	7	53.2	97	do. 25	-1	do. 15	13	38.53	5.95	do.	1.12	Dec.	10.7	109	200	39	126	nw.
Tuckerton	Ocean	23	45	54.2	98	do. 4†	-1	do. 16	50	35.69	7.18	do.	0.68	Aug.	3.5	104	200	39	126	nw.
Vineland	Cumberland	110	45	54.2	98	do. 4†	-1	do. 16	63	32.51	6.77	do.	0.69	Aug.	3.5	87	190	104	71	w.
Westfield	Union	145	45	54.2	98	do. 4†	-1	do. 16	4	43.12	7.30	do.	1.12	Dec.	20.5	82	190	104	71	sw.
Woodcliff Lake	Bergen	103	45	54.2	98	do. 4†	-1	do. 16	25	42.60	8.78	do.	1.20	Dec.	20.5	109	190	104	71	sw.
Woodstown	Salem	16	45	54.2	98	do. 4†	-1	do. 16	9	33.67	6.40	May	0.27	Sept.	10.7	109	190	104	71	sw.
New York, N. Y.		10	73	52.9	96	June 25	-8	Feb. 15	73	40.50	9.24	Oct.	1.42	Dec.	20.1	120	119	119	127	nw.
Philadelphia, Pa.		26	73	53.7	97	do. 26	3	do. 15	73	36.77	5.63	May	0.65	Aug.	11.1	114	74	145	146	sw.
For the State				52.0	102	June 26	-25	Feb. 16		39.02	13.94	Oct.	0.20	Nov.	17.7	102	145	102	118	nw.

† Also on other dates.

W. B. O. Philadelphia-2-16-44-1050

Monthly and Annual Precipitation for the Year 1943, with Departures from the Normal

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Atlantic City.....	3.55	+0.06	2.32	-1.04	4.43	+0.83	4.00	+1.01	2.42	-0.63	2.75	-0.29	1.64	-2.29	0.44	-4.05	3.61	+0.96	7.93	+4.73	2.95	+0.13	1.89	-2.05	37.93	-2.63
Barneget City.....	2.82	.....	2.81	.....	2.06	.....	3.18	.....	2.07	.....	1.90	.....	2.41	.....	0.22	.....	1.56	.....	5.06	.....	0.20	.....	1.50	.....	25.79	.....
Belleplain.....	2.33	-1.21	2.99	-0.34	4.23	+0.47	2.54	-1.16	2.05	-1.47	2.94	-0.50	2.69	-1.62	0.89	-3.71	1.90	-1.48	7.30	+4.40	3.25	+0.71	1.84	-2.16	34.95	-8.07
Belmar.....	2.82	.....	1.91	.....	3.09	.....	3.56	.....	2.87	.....	1.46	.....	5.03	.....	1.47	.....	3.51	.....	8.92	.....	2.34	.....	1.91	.....	38.89	.....
Belvidere.....	4.72	+0.36	2.36	-1.20	2.82	-0.87	3.49	-0.27	5.36	+1.82	5.69	+1.69	4.97	+0.43	3.44	-1.13	0.47	-3.27	7.46	+3.64	4.15	+0.96	1.58	-2.33	46.51	+0.43
Berlin.....	3.00	.....	2.08	.....	2.81	.....	2.85	.....	3.60	.....	1.40	.....	1.90	.....	0.30	.....	1.15	.....	6.67	.....	1.65	.....	1.20	.....	28.61	.....
Boonton.....	3.30	-0.08	1.95	-1.35	2.49	-1.15	1.35	-2.55	5.08	+1.38	2.62	-1.34	3.88	-0.76	3.87	-0.82	2.19	-1.66	6.51	+2.63	3.51	+0.50	1.15	-2.55	37.93	-7.75
Bridgeton.....	2.80	-0.65	2.17	-1.05	3.27	-0.57	3.04	-0.56	4.67	+1.40	2.54	-1.38	1.77	-2.68	0.79	-3.88	2.15	-1.16	5.87	+2.77	2.56	-0.04	1.99	-1.71	33.62	-9.51
Brooklawn.....	2.96	.....	1.89	.....	2.70	.....	2.56	.....	4.80	.....	4.25	.....	5.01	.....	0.40	.....	0.23	.....	5.93	.....	2.92	.....	1.30	.....	34.95	.....
Burlington.....	2.71	-0.86	1.06	-2.26	2.47	-1.24	2.61	-1.13	6.42	+2.91	2.18	-1.51	4.76	-0.18	1.51	-4.27	0.48	-3.08	6.32	+2.83	2.38	-0.60	1.27	-2.68	34.17	-12.07
Canoe Brook.....	3.02	-0.85	1.91	-0.94	3.05	-1.51	3.06	-0.77	7.02	+3.67	3.35	-1.15	3.85	-0.69	3.08	-2.58	2.45	-2.40	7.86	+4.42	3.30	-0.29	1.09	-2.08	43.04	-5.06
Cape May.....	2.88	-0.49	2.25	-1.04	3.96	+0.17	2.73	-0.26	1.45	-1.54	2.08	-0.96	0.68	-3.17	1.08	-3.18	2.12	-0.88	4.20	+0.76	1.96	-1.63	1.71	-0.63	27.10	-12.27
Charlotteburg.....	3.16	-0.46	2.20	-1.49	3.34	-0.65	2.32	-2.00	5.11	+1.23	3.37	-1.09	4.50	-0.08	2.62	-1.88	1.04	-3.11	7.50	+3.09	3.15	-0.47	1.14	-2.86	39.45	-9.77
Chatham.....	2.50	-1.47	2.06	-1.81	3.00	-1.04	2.75	-1.47	7.10	+3.18	3.04	-0.92	4.28	-0.66	3.37	-1.28	2.51	-1.71	7.22	+3.11	3.98	+0.54	1.13	-3.04	42.94	-6.57
Chatsworth.....	3.25	.....	1.70	.....	3.36	.....	2.06	.....	3.89	.....	3.18	.....	4.55	.....	0.55	.....	1.08	.....	9.10	.....	2.72	.....	2.08	.....	37.52	.....
Clayton.....	2.72	-0.85	2.35	-0.99	3.08	-0.44	3.55	-0.06	6.10	+3.06	3.65	-0.09	2.24	-2.52	0.57	-4.25	1.10	-2.38	6.93	+3.77	3.16	+0.44	1.72	-1.97	37.17	-6.08
Clinton.....	.....	.....	.....	.....	.....	.....	.....	.....	5.72	.....	4.48	.....	4.82	.....	4.38	.....	0.48	.....	6.03	.....	2.87	.....	1.43	.....	.....	.....
Culvers Lake.....	2.81	-0.23	2.04	-0.92	2.50	-0.82	2.18	-1.35	4.53	+0.70	3.15	-1.29	2.10	-2.68	3.17	-1.48	1.25	-2.77	5.96	+2.35	4.15	+1.05	0.87	-2.47	34.71	-9.91
Dover.....	2.88	-1.12	2.26	-1.51	3.11	-0.91	3.04	-1.02	5.55	+1.92	3.69	-0.74	5.69	+0.48	3.66	-0.84	1.72	-2.36	8.57	+4.43	3.17	-0.88	1.41	-2.77	44.75	-4.82
Egg Harbor City.....	3.13	-0.53	2.63	-1.57	4.28	-0.12	.....	.....	3.66	+0.15	3.89	-1.10	0.66	-3.67	4.76	+0.48	7.90	+3.82	2.68	-1.02	1.05	-2.74	.....	.....	.....	.....
Elizabeth.....	3.11	-0.59	2.27	-1.59	3.82	-0.14	2.98	-0.86	7.58	+3.94	2.94	-0.66	4.19	-0.53	2.68	-1.65	3.27	-0.34	9.74	+5.79	2.48	-0.44	1.40	-2.52	46.46	+0.41
Flemington.....	2.53	-0.94	1.89	-1.43	2.54	-1.12	2.50	-1.12	5.37	+1.85	5.44	+1.83	4.38	-0.47	3.55	-0.97	0.86	-2.78	6.62	+3.11	2.94	-0.01	1.30	-2.36	39.92	-4.41
Frehold.....	2.95	-1.07	1.53	-2.41	2.41	-2.07	3.13	-0.58	3.08	-0.64	4.26	-0.51	2.86	-1.89	2.37	-2.26	1.24	-3.14	9.73	+6.05	2.22	-1.61	1.51	-2.07	37.29	-11.18
Hammononton.....	2.00	-1.74	2.23	-1.01	4.24	+0.32	4.02	+0.24	6.38	+2.77	3.65	-0.21	9.47	+4.93	0.50	-4.38	1.57	-2.64	4.90	+1.05	3.63	+0.59	1.96	-2.02	44.45	-2.10
Hightstown.....	2.53	-0.94	1.56	-1.83	2.35	-1.43	2.50	-1.39	5.40	+1.79	4.02	+0.26	4.01	-0.91	2.14	-2.88	1.10	-2.11	5.80	+2.10	2.18	-0.73	1.21	-2.33	34.80	-10.40
Indian Mills.....	3.25	-0.72	1.95	-1.72	3.01	-1.07	3.29	-0.51	3.24	-0.10	2.88	-1.05	5.07	+0.32	0.57	-4.96	1.02	-2.47	7.55	+3.86	2.44	-0.56	1.80	-2.31	36.07	-11.29
Jersey City.....	.....	.....	.....	.....	.....	.....	.....	.....	3.45	-0.33	4.08	-0.27	3.35	-0.98	.....	.....	1.63	-1.77	6.39	+2.29	2.25	-0.75	1.46	-2.19	.....	.....
Lakewood.....	3.38	-0.62	2.11	-1.78	3.53	-0.64	3.27	-0.68	3.50	-0.28	2.75	-1.26	5.48	+0.18	1.14	-4.05	2.41	-0.63	13.94	.....	2.77	-0.32	1.98	-2.21	46.26	-1.85
Lambertville [near].....	3.05	-0.41	1.97	-1.41	3.38	-0.41	3.00	-0.80	7.28	+3.62	3.08	-0.68	3.87	-0.77	2.63	-2.17	0.91	-2.45	7.22	+3.67	3.51	+0.51	1.24	-2.46	41.14	-3.76
Layton [near].....	2.28	-0.70	3.00	+0.01	0.71	-2.58	1.98	-1.51	3.24	+0.10	3.34	-1.19	2.63	-1.77	2.39	-1.70	0.41	-3.45	6.49	+2.74	3.52	+0.45	0.22	-3.15	30.21	-12.75
Little Falls.....	3.35	-0.32	2.09	-1.71	3.01	-0.76	2.74	-1.42	5.22	+1.28	2.69	-1.33	4.93	+0.21	3.64	-1.32	2.11	-1.57	8.92	+4.33	4.03	+0.63	1.10	-2.34	43.83	-4.32
Long Branch.....	3.46	-0.68	2.01	-2.12	3.02	-1.15	3.54	-0.73	2.67	-1.18	3.66	-0.20	3.25	-2.60	1.75	-3.73	3.23	+0.04	9.53	+5.14	2.69	-0.87	1.65	-2.50	40.46	-10.58
Long Valley.....	3.90	+0.73	2.38	-0.44	3.15	-0.72	2.97	-0.45	6.35	+3.01	3.89	-0.62	4.77	-0.54	4.34	-1.00	0.77	-3.80	7.67	+4.32	3.78	-0.43	1.56	-1.68	45.53	-1.62
Marlton.....	3.48	.....	2.71	.....	2.91	.....	3.13	.....	6.39	.....	4.08	.....	6.88	.....	0.60	.....	0.51	.....	7.21	.....	2.39	.....	1.78	.....	42.10	.....
Millville.....	3.03	.....	2.27	.....	3.75	.....	3.60	.....	3.36	.....	1.74	.....	0.77	.....	0.85	.....	2.06	.....	5.90	.....	2.35	.....	2.09	.....	31.77	.....
Moorestown.....	3.52	+0.18	1.32	-1.93	2.42	-1.26	3.03	-0.62	8.37	+4.85	3.28	-0.50	5.67	+0.97	0.47	-4.90	0.30	-3.23	7.03	+3.55	2.23	-0.68	1.35	-2.42	38.99	-5.99
Morris Plains.....	2.95	.....	2.07	.....	2.92	.....	3.23	.....	5.34	.....	2.34	.....	6.10	.....	4.61	.....	2.17	.....	9.42	.....	3.95	.....	1.27	.....	46.32	.....
Newark.....	2.80	-0.86	1.98	-1.47	3.61	-0.14	2.50	-1.38	6.16	+2.29	3.12	-1.40	4.64	-0.31	3.89	-0.66	2.65	-1.04	8.20	+3.84	2.36	-0.73	1.47	-2.49	43.38	-4.55
New Brunswick.....	2.65	-0.75	1.61	-1.76	2.89	-0.67	1.70	-1.91	5.43	+1.77	4.11	+0.46	3.28	-1.95	2.82	-2.88	2.41	-0.95	6.46	+2.64	2.50	-0.34	1.12	-2.42	36.71	-8.76
New Milford.....	3.46	0.00	1.60	-1.47	2.91	-0.76	2.57	-1.15	4.20	+0.76	2.97	-1.05	7.60	+3.07	2.83	-1.53	2.08	-2.27	8.71	+5.62	3.30	+0.19	1.20	-1.76	45.43	-0.35
Newton.....	2.80	-0.50	1.83	-1.32	3.30	-1.09	3.25	-0.28	5.73	+2.12	5.37	+0.89	3.04	-1.79	2.91	-1.44	0.34	-3.42	8.96	+5.31	4.82	+1.75	0.74	-2.67	42.09	-2.44
Orange.....	3.24	.....	1.82	.....	3.40	.....	2.73	.....	5.60	.....	2.31	.....	4.45	.....	2.81	.....	2.24	.....	8.85	.....	3.28	.....	1.17	.....	41.90	.....
Paterson.....	1.90	-1.65	1.73	-2.25	2.68	-1.27	2.60	-1.23	4.60	+0.83	2.75	-0.95	5.71	+1.41	3.72	-0.91	2.77	-0.84	8.44	+4.33	3.97	+0.8.				

Monthly and Annual Mean Temperatures for the Year 1943, with Departures from the Normal

STATIONS.	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic City.....	34.4	+1.9	36.0	+2.4	41.0	+2.4	46.4	-1.4	59.6	+1.5	73.4	+6.8	73.0	+0.9	72.2	-0.3	65.8	-1.0	56.4	-0.5	46.2	+0.6	36.0	-0.4	53.4	+1.1
Barneget City.....	31.6	.....	33.1	.....	38.6	.....	44.8	.....	58.0	.....	72.2	.....	71.8	.....	71.6	.....	66.1	.....	56.2	.....	45.8	.....	34.0	.....	52.0	.....
Belleplain.....	.....	.....	34.5	+1.8	41.2	-0.2	46.8	-3.5	63.2	+2.4	74.6	+5.3	.....	.....	.....	.....	.....	.....	52.4	-3.0	41.9	-2.9	32.6	-3.4	.....	.....
Belvidere.....	28.1	+0.1	30.8	+2.6	38.2	-0.3	45.8	-3.9	63.4	+2.6	75.2	+5.8	75.6	+1.9	73.6	+2.3	64.8	-0.3	53.2	-1.7	40.7	-0.7	29.7	-1.4	51.6	+0.6
Boonton.....	27.4	-0.5	28.2	+0.2	34.4	-1.5	43.2	-4.8	59.8	+1.0	72.2	+4.7	72.8	+0.6	71.0	+0.5	62.1	-1.4	50.4	-1.8	39.0	-2.4	28.2	-2.1	49.1	-0.6
Bridgeton.....	32.6	-1.2	35.9	+1.9	43.6	+1.2	48.8	-3.4	64.6	+1.2	76.9	+4.8	77.0	+0.5	76.8	+2.1	67.5	-0.8	54.4	-2.5	44.0	-1.7	33.6	-2.6	54.6	-0.1
Burlington.....	31.9	-1.3	36.6	+3.4	44.2	+1.9	48.6	-3.3	63.8	+1.0	77.5	+6.4	77.7	+1.8	76.8	+2.5	67.8	+0.3	55.4	-1.8	44.3	-1.4	32.6	-2.8	51.8	+0.6
Canoe Brook.....	27.4	-2.0	28.2	-0.4	35.8	-1.2	43.0	-3.9	58.4	-0.3	72.9	+5.6	73.1	+1.0	70.8	+0.1	65.6	+1.8	53.0	+0.6	40.4	-1.3	28.0	-3.7	49.7	-0.3
Cape May.....	35.9	+1.8	36.8	+2.7	41.3	+0.5	46.8	-1.6	61.1	+2.5	73.6	+5.9	72.4	-1.0	71.4	-2.0	66.7	-2.3	57.3	-2.3	46.8	-0.6	36.6	-1.4	53.9	+0.2
Charlotteburg.....	26.2	-1.8	29.1	+2.1	36.7	+0.4	43.0	-3.7	60.1	+2.4	71.0	+5.4	70.0	-0.4	69.2	+0.9	62.4	+0.1	50.6	-0.8	39.0	-1.7	27.6	-3.0	48.7	0.0
Chatsworth.....	31.5	.....	34.6	.....	41.8	.....	46.6	.....	61.6	+3.0	75.3	.....	74.1	.....	74.6	.....	65.4	.....	54.8	.....	43.6	.....	30.8	.....	53.0	.....
Clayton.....	34.8	+2.9	38.0	+6.4	44.2	+2.4	49.0	-1.9	64.6	+3.0	75.8	+6.2	73.0	-2.2	75.1	+1.8	66.5	-0.5	55.0	-1.4	43.2	-1.2	33.3	-1.3	54.4	+1.2
Dover.....	27.0	-0.3	29.4	+2.2	36.8	+0.8	43.0	-4.4	59.4	+0.7	70.1	+3.1	71.7	+0.1	69.8	-0.4	61.4	-1.1	50.9	-0.5	39.7	-1.0	28.3	-2.1	49.0	-0.1
Elizabeth.....	.....	.....	33.2	+2.0	.....	.....	.....	.....	.....	.....	.....	.....	77.2	+1.9	.....	.....	67.6	+0.7	55.4	+0.2	43.2	-0.7	30.8	-3.0	.....	.....
Flemington.....	30.2	-0.3	32.6	+2.3	40.0	-0.6	46.2	-4.0	62.8	+1.4	74.9	+5.0	76.2	+1.3	75.0	+2.2	66.5	-0.2	55.0	-0.6	42.8	-0.8	31.3	-1.7	52.8	+0.3
Freehold.....	30.2	-2.5	33.6	+2.5	40.5	+1.5	46.4	-3.8	62.0	0.0	74.8	+4.3	74.2	-0.5	73.6	+0.6	65.0	-1.1	53.6	-1.7	42.6	-2.5	31.2	-3.8	52.3	-0.6
Hammonton.....	31.2	-2.9	34.6	+0.1	41.2	-0.3	46.1	-5.9	62.3	-0.9	75.4	+4.0	73.8	-2.1	74.2	0.0	65.8	-1.2	54.4	-2.0	44.2	+1.8	33.2	0.0	53.0	-0.8
Hightstown.....	30.4	-0.1	33.6	+2.6	40.8	+0.2	46.4	-3.8	62.2	+1.3	74.4	+5.2	74.4	+0.2	73.6	+1.4	65.2	-1.3	54.2	-0.7	43.2	-0.6	31.7	-1.7	52.5	+0.2
Indian Mills.....	31.4	-1.0	34.3	+1.6	41.8	+0.7	46.5	-4.0	63.2	+1.4	75.5	+5.5	74.8	+0.2	74.7	+2.1	65.6	-0.8	54.0	-1.3	42.9	-1.0	31.4	-3.2	53.0	0.0
Jersey City.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43.5	-1.4	31.4	-3.6	.....	.....	.....	.....
Lakewood.....	32.1	-0.1	34.8	+3.3	42.5	+2.2	47.2	-2.4	62.9	+2.5	75.5	+6.7	74.1	+0.6	73.8	+2.3	65.6	+0.4	54.5	+0.1	44.2	+0.4	32.8	-1.7	53.3	+1.2
Lambertville.....	30.8	0.0	32.9	+2.3	40.4	+1.2	46.6	-4.1	61.9	+0.7	75.1	+5.8	75.3	+1.1	74.5	+1.5	65.7	-0.7	53.6	-2.0	43.2	-0.6	31.2	-2.5	52.3	+0.1
Layton, 3 mi. NW.....	26.2	+0.6	27.8	+2.5	35.0	-0.8	42.1	-4.6	59.2	+1.5	71.8	+5.7	72.0	+0.8	69.9	+1.2	61.0	-1.5	49.8	-1.1	37.1	-2.4	24.8	-4.1	48.0	-0.2
Little Falls.....	29.6	+0.1	31.4	+1.1	37.6	-1.3	45.4	-4.0	61.8	+1.5	73.2	+4.0	74.8	+0.8	73.2	+1.1	64.3	-1.0	52.8	-1.3	41.8	-1.3	29.8	-3.0	51.8	-0.3
Long Branch.....	30.2	-1.8	33.7	+2.4	40.0	+0.7	45.2	-3.0	60.2	+1.7	74.4	+6.7	73.2	+0.3	72.6	+1.1	65.4	-0.5	54.1	-1.1	44.0	-0.4	32.1	-2.6	52.1	+0.3
Long Valley.....	26.8	.....	28.0	.....	35.0	.....	42.9	.....	58.8	.....	71.0	.....	70.0	.....	68.6	.....	60.0	.....	49.2	.....	37.0	.....	26.1	.....	47.8	.....
Moorestown.....	31.3	+0.1	34.6	+2.8	41.3	+1.4	46.8	-3.6	62.5	+1.2	75.2	+5.0	75.0	+0.2	74.2	+1.5	65.2	-1.0	53.4	-1.5	42.9	-0.2	31.6	-2.4	52.8	+0.3
Newark.....	29.8	-0.1	32.3	+2.7	38.8	-0.6	45.9	-4.1	61.9	+0.7	75.1	+5.8	75.3	+1.1	74.5	+1.5	65.7	-0.7	53.6	-2.0	43.2	-0.6	31.2	-2.5	52.3	+0.1
New Brunswick.....	30.8	+0.2	33.8	+2.7	40.6	+1.4	46.6	-3.0	62.8	+2.3	74.0	+4.7	74.5	+0.4	74.2	+2.0	65.8	0.0	54.4	-0.4	43.4	-0.3	31.8	-1.7	52.7	+0.7
Newton.....	25.0	-1.6	28.7	+1.5	35.4	-0.6	41.9	-5.9	59.9	+0.7	71.2	+3.3	72.2	-0.4	71.4	+1.0	63.0	-0.8	51.3	-1.4	38.9	-2.0	26.6	-3.8	48.8	-0.9
Paterson.....	25.0	-2.2	30.0	-0.7	36.1	-1.0	43.9	-6.7	60.8	-0.7	73.8	+3.7	74.5	-0.1	71.8	-0.4	64.0	-2.3	52.2	-2.9	40.6	-3.2	28.5	-5.0	50.4	-0.7
Pemberton.....	32.4	-2.1	35.4	+1.8	43.0	+1.5	48.2	-2.7	64.2	+1.2	76.4	+4.8	75.8	-0.1	75.4	+1.0	67.7	0.0	55.6	-0.1	45.0	-1.2	33.4	-2.8	54.4	+0.1
Phillipsburg.....	26.6	-2.2	31.1	+2.2	38.6	+0.1	44.6	-4.8	63.0	+1.9	73.9	+4.4	73.1	-0.3	72.0	+0.2	62.6	-2.6	51.2	-2.3	40.4	-1.5	29.6	-2.2	50.6	-0.6
Plainfield.....	30.1	-0.2	33.4	+3.7	39.4	+0.3	46.0	-3.4	61.9	+1.7	75.1	+6.2	75.0	+1.1	74.6	+2.8	65.0	-0.6	53.8	-0.2	43.2	+0.3	31.6	-1.5	52.4	+0.8
Pleasantville.....	32.6	-1.0	34.6	+1.0	40.8	+0.4	46.0	-2.6	60.6	+1.6	73.8	+5.3	72.4	-0.9	71.7	-0.5	64.8	-1.1	54.4	-0.4	42.6	-2.4	31.4	-4.1	52.1	-0.4
Ridgefield.....	28.6	-0.9	31.8	+2.0	38.2	-0.3	45.0	-2.6	61.2	+1.3	74.2	+5.6	74.8	+1.1	73.2	+1.4	64.8	-0.3	52.4	-1.4	41.8	-1.2	29.6	-2.6	51.3	+0.1
Runyon.....	28.4	-2.3	32.4	+1.6	38.2	-1.2	42.9	-5.2	63.7	+4.2	76.6	+8.0	77.4	+4.4	76.0	+4.3	65.6	+1.3	51.3	-1.5	39.8	-3.0	26.6	-5.8	51.6	+0.4
Sandy Hook.....	30.8	-0.5	32.8	+0.7	38.4	-0.9	45.1	-3.2	61.6	+3.2	73.9	+6.1	74.8	+1.3	75.2	+2.7	66.3	-1.2	55.6	-1.1	45.0	-0.8	33.0	-2.2	52.7	+0.3
Somerville[near].....	29.2	-0.3	33.0	+3.1	39.0	+0.2	45.0	-4.4	62.2	+1.7	74.8	+5.7	73.2	-0.8	73.4	+1.1	65.4	-0.5	52.8	-1.4	41.9	-0.9	30.8	-2.8	51.7	0.0
Sussex.....	25.8	-1.4	28.9	+2.0	36.0	-0.8	44.1	-4.3	60.4	+0.7	73.5	+5.6	73.2	+0.9	70.6	+0.6	62.6	-1.7	52.0	-0.9	39.8	-1.6	27.4	-2.8	49.5	-0.3
Trenton.....	31.0	+0.5	33.8	+3.1	40.4	+1.3	46.0	-3.8	62.6	+1.5	75.0	+6.0	75.9	+1.3	74.8	+1.8	65.6	-1.3	54.0	-1.6	44.0	-0.4	32.8	-1.6	53.0	+0.5
Trenton No 2.....	31.2	.....	36.8	.....	41.0	.....	46.6	.....	63.0	.....	75.8	.....	75.4	.....	74.7	.....	65.6	.....	54.0	.....	44.2	.....	32.8	.....	53.2	.....
Tuckerton.....	34.4	+0.4	36.3	+3.0	43.1	+1.9	46.6	-2.8	61.4	+1.5	76.4	+7.5	75.2	+1.0	74.2	+1.5	66.4	-0.3	55.3	-1.2	45.8	+0.4	35.0	-1.2	54.2	+1.0
New York, N. Y.....	30.8	-0.1	34.1	+2.8	39.6	+1.9	45.4	-4.0	61.3	+0.7	74.4	+5.6	75.3	+2.0	74.5	+1.4	66.2	-0.6	55.0	-1.3	44.8	+0.6	32.6	-2.4	52.9	+0.6
Philadelphia, Pa.....	31.8	+0.7	34.1	+1.6	41.3	+2.2	46.8	-3.8	63.3	+1.2	76.8	+6.2	76.4	+1.1	76.4	+3.1	66.4	+0.5	54.0	-1.5	43.9	0.0	32.8	-1.8	53.7	+0.8
For The State.....	30.3	-0.6	32.9	+2.3	39.4	+0.2	45.5	-4.1	61.7	+1.3	74.2	+5.2	74.2	+0.4	73.2	+1.2	65.0	-0.8	53.5	-1.1	42.4	-1.3	31.1	-2.7	52.0	0.0

Reference letters, as a, b, c., in table indicate number of days missing; for example, b represents 2 days.

* Estimated

KILLING FROSTS

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
Atlantic City.....	Apr. 15	Nov. 12	Layton.....	May 5	Oct. 5
Barneget City.....	do. 16*	do. 13*	Little Falls.....	do. 2	do. 5
Belleplain.....	May 2*	Oct. 6	Long Branch.....	Apr. 16	Nov. 5
Belvidere.....	Apr. 23*	do. 11	Long Valley.....	May 5	Oct. 6
Boonton.....	May 2*	do. 6*	Moorestown.....	Apr. 16	do. 11
Bridgeton.....	Apr. 16*	Nov. 10	Newark.....	do. 18*	Nov. 12*
Burlington.....	do. 16*	do. 12*	New Brunswick.....	do. 23*	Oct. 13
Canoe Brook.....	May 5*	Oct. 6	Newton.....	May 2*	Oct. 5
Cape May.....	Apr. 7*	Nov. 17*	Paterson.....	Apr. 18*	do. 11
Charlotteburg.....	May 23*	Oct. 5	Pemberton.....	do. 16*	do. 6
Chatsworth.....	do. 2*	do. 6	Phillipsburg.....	do. 24*	do. 11
Clayton.....	Apr. 24*	do. 12	Plainfield.....	May 2	do. 11
Dover.....	May 5	do. 6	Pleasantville.....	do. 2*	do. 12
Elizabeth.....	Nov. 5	Ridgefield.....	Apr. 18*	do. 11

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX.

JANUARY 1944.

No. 1

GENERAL SUMMARY.

This was the warmest January since 1937 though the average for the State was only 1.6° above normal. It was 1.5° warmer than the December preceding. The excess in temperature was accumulated during the last decade of the month with practically normal conditions up to that time. It was unusually mild from the 26th to the 29th; ice disappeared from streams and frost mostly left the ground except in north Jersey. The coldest weather was on the 17th when eleven stations recorded minima from zero to -10°.

Precipitation was only slightly below normal. It occurred mostly during the period, 3d to 6th. The stations averaged only seven days with measurable amounts whereas the normal number for January is ten days. Snowfall was scarcely 60 percent of normal and was the least January amount since 1938. There was no sleet of importance though light amounts fell in the State on several days. Strong winds occurred on the 3d and 4th, with Atlantic City reporting a maximum velocity of 63 miles per hour on the 4th. Damage by wind appears to have been light, however. The amount of sunshine was greater than normal.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 41 stations, was 32.5°, which was 1.6° above normal. The highest temperature was 69° at Pleasantville on the 27th, and the lowest, -10°, at Charlotteburg on the 17th. The highest monthly mean temperature was 36.7° at Tuckerton, and the lowest, 27.9°, at Layton.

The temperature departure from the normal for the year 1944 to date, for the State, is +1.6°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 61 stations, was 3.50 inches, which was 0.15 inch below normal. The average total snowfall at 24 selected stations was 4.3 inches, which was 3.0 inches below normal. The greatest monthly precipitation was 5.35 inches at Elizabeth, and the least, 1.86 inches at Layton. The greatest amount of precipitation in any 24 consecutive hours was 2.76 inches at Westfield on the 3d-4th.

The average for the Highlands was 2.72 inches; for the Red Sandstone Plain, 3.99 inches; for the Southern Interior, 3.27 inches; and for the Sea Coast, 4.02 inches.

The precipitation accumulated departure from the normal for the year 1944, by sections, was: the Highlands, -0.68 inches; Red Sandstone Plain, +0.41 inches; Southern Interior, -0.36 inches; Sea Coast, +0.28 inches.

ERRATA FOR 1943

April.—Page 14, Canoe Brook, temperature departure should be -3.9°; precipitation departure for the State should be -0.83 inches.
May.—Page 18, data for Clayton and Clinton are interchanged.
June.—Page 22, Bridgeton, precipitation departure should be -1.38 inches.
October.—Page 38, Atlantic City, date of greatest precipitation should be the 26-27th.
November.—Page 42, Long Branch, mean temperature should be 44.0°, departure, -0.4°; Orange, total precipitation should be 3.28 inches.
December.—Page 46, Pleasantville, mean temperature should be 31.4°, departure, -4.1°; page 48, Pleasantville maximum temperature on 27th should be 40°, mean maximum, 42.3°; page 46, Freehold, mean temperature should be 31.4°, departure, -4.1°; page 48, Freehold, mean minimum temperature should be 20.6°.
Annual.—Page 51, April precipitation departure for State should be -0.83 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 11, 17, 18, 20, 21, 22, 26, 27, 28, 29, 30.

THUNDERSTORMS: 15.

SLEET: 3, 4, 5, 6, 15, 16, 31.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.52	17	29.48	4	16.8	63	e.	4	81	67	76	59	900
Long Branch.....	30.54	17	29.60	31	13.6	50	ne.	3-4	74	62	70	56	977
Trenton.....	30.53	17	29.63	31	9.6	32	ne.	3	74	61	68	54	967

COMPARATIVE DATA FOR JANUARY.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	30.8	67	0	4.08	.....	.....	.....	.....
1886.....	27.3	60	-10	4.47	.....	.....	.....	.....
1887.....	28.4	67	-6	3.86	.....	10	.....	.....
1888.....	25.4	59	-12	4.77	.....	9	.....	.....
1889.....	36.2	60	8	5.68	.....	9	.....	.....
1890.....	41.3	78	12	2.29	.....	10	.....	.....
1891.....	34.2	59	10	6.57	.....	10	10	11
1892.....	29.9	67	-6	5.13	.....	10	10	9
1893.....	21.6	54	-21	3.04	.....	9	10	10
1894.....	34.2	61	-4	2.34	.....	11	10	8
1895.....	28.1	64	-4	4.66	9.7	11	10	10
1896.....	28.6	61	-7	1.66	.....	5	12	10
1897.....	29.0	64	-6	2.80	11.5	9	11	8
1898.....	32.6	64	-10	4.20	9.7	11	9	11
1899.....	30.1	60	-21	4.01	6.0	11	13	8
1900.....	32.4	64	-5	3.85	2.6	10	11	11
1901.....	30.4	63	-6	2.52	5.4	9	11	11
1902.....	28.4	58	-5	3.28	8.6	10	12	9
1903.....	30.4	57	-5	3.90	6.4	10	10	10
1904.....	23.3	58	-34	3.09	15.6	10	13	7
1905.....	27.0	60	-16	4.18	21.3	9	12	9
1906.....	36.5	74	-5	2.85	3.1	11	11	9
1907.....	31.8	71	-19	3.50	10.3	14	8	9
1908.....	31.8	60	-6	3.74	9.9	9	12	11
1909.....	33.2	69	-12	3.18	7.5	12	8	9
1910.....	29.7	54	-15	5.04	13.3	15	8	8
1911.....	33.5	63	0	3.44	3.6	14	10	7
1912.....	22.3	58	-32	2.82	13.4	13	8	12
1913.....	39.5	68	10	3.58	0.8	14	11	7
1914.....	31.9	73	-12	3.85	2.4	9	9	8
1915.....	33.5	61	3	6.55	3.4	12	11	6
1916.....	35.1	74	-2	1.50	1.9	11	11	8
1917.....	31.4	58	0	3.26	5.4	13	10	8
1918.....	20.3	56	-16	4.14	18.9	11	12	8
1919.....	34.1	62	-7	3.51	1.3	8	14	7
1920.....	23.6	53	-10	2.60	6.6	11	11	7
1921.....	33.0	63	-5	2.63	2.7	9	13	8
1922.....	27.6	57	-11	2.62	11.1	8	15	6
1923.....	30.1	66	-14	5.22	16.6	12	9	7
1924.....	32.2	65	-6	4.48	1.4	8	15	8
1925.....	27.4	59	-20	4.43	22.8	10	12	6
1926.....	30.8	63	-9	2.61	2.4	9	11	8
1927.....	29.2	70	-12	2.22	7.9	11	11	7
1928.....	32.5	65	-15	2.26	8.3	8	15	8
1929.....	30.7	67	-4	3.49	1.6	10	13	7
1930.....	31.7	72	-14	2.92	5.9	10	10	6
1931.....	31.6	64	-5	2.16	1.6	5	16	7
1932.....	42.4	76	18	4.50	1.5	13	8	6
1933.....	38.5	67	2	2.39	1.2	8	13	7
1934.....	33.6	64	-1	2.59	0.2	8	11	8
1935.....	28.2	65	-26	4.00	15.8	11	13	5
1936.....	27.2	59	-15	6.34	9.1	13	13	7
1937.....	40.3	72	9	6.30	2.2	16	6	6
1938.....	31.0	68	-19	3.64	4.0	12	10	7
1939.....	30.9	65	-10	3.98	10.2	11	11	6
1940.....	22.4	62	-13	1.95	5.6	7	16	6
1941.....	29.4	58	-7	3.47	8.8	10	12	6
1942.....	28.9	66	-23	2.98	5.5	7	13	7
1943.....	30.3	63	-2	2.97	7.3	10	10	8
1944.....	32.5	69	-10	3.50	4.3	7	11	9
Period	0.9	78	-34	3.65	7.3	10	11	8

Climatological Data for January 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	71	36.0	+3.5	64	27	14	9	4.45	+0.96	2.54	3-4	3.2	8	7	12	12	w.	U. S. Weather Bureau.
Barneget City.....	Ocean.....	36	5	35.3	.....	65	27	13	9	4.14	.....	2.01	3-4	.....	7	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	50	33.4	-0.2	67	26	8	9	3.45	-0.09	1.30	3	3.5	7	13	8	10	w.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	3	.....	.....	.....	.....	.....	.....	4.16	.....	1.50	3	.....	9	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	52	30.8	+2.8	53	28	7	17	3.39	-0.37	1.15	6	5.0	4	15	7	9	.....	Miss C. S. Hixson.
Berlin.....	Camden.....	70	3	.....	.....	.....	.....	.....	.....	4.12	.....	1.10	3-4	.....	6	14	9	8	.....	Samuel H. McCulley.
Boonton.....	Morris.....	280	54	29.6	+1.7	60	28	3	17	3.00	-0.38	1.35	3-4	.....	7	7	7	17	uw	John Kline.
Bridgeton.....	Cumberland.....	30	61	34.8	+1.0	64	26	13	9	2.96	-0.49	1.40	3	5.3	6	14	8	9	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	3	.....	.....	.....	.....	.....	.....	3.16	.....	0.97	5-6	2.1	6	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	58	33.3	+0.1	56	27	11	9	2.10	-1.47	0.93	3-4	0.8	6	10	9	12	ne.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	14	30.4	+1.0	67	27	-3	17	3.66	-0.21	2.02	3-4	.....	7	8	11	12	w.	N. J. Water Policy Comm.
Cape May.....	Cape May.....	17	56	36.4	+2.3	67	27	14	9	2.58	-0.79	1.04	3	3.1	8	9	12	10	nw.	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	52	29.6	+2.1	60	27	-10	17	3.51	-0.11	1.79	4	14.0	5	11	4	16	w.	Newark Water Dept.
Chatham.....	Morris.....	185	40	.....	.....	.....	.....	.....	.....	4.75	+0.78	2.00	3-4	.....	9	11	13	7	.....	Paul Molitor, Jr.
Chatsworth.....	Burlington.....	90	4	32.8	.....	66	27	-1	17	3.47	.....	1.25	3-4	.....	4	6	13	12	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	31	34.8	+2.9	65	26	8	17	3.84	+0.27	1.50	3	3.8	5	11	7	13	n.	Worthy Hitt.
Clinton.....	Hunterdon.....	300	1	.....	.....	.....	.....	.....	.....	3.83	.....	1.28	3-4	1.6	6	15	6	10	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	43	.....	.....	.....	.....	.....	.....	2.96	-0.08	1.31	6	9.0	5	.....	.....	.....	.....	L. S. Depue.
Dover.....	Morris.....	600	60	29.6	+2.3	58	27	0	17	2.45	-1.55	1.55	5-6	6.1	6	9	9	13	.....	William C. Harris.
Egg Harbor City.....	Atlantic.....	63	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chas. E. Hall.
Elizabeth.....	Union.....	34	65	32.4	+1.5	62	27	8	17	5.35	+1.65	2.56	3-4	6.0	7	11	8	12	ne.	Union County Park Comm.
Flemington.....	Hunterdon.....	140	58	33.5	+3.0	65	27	-1	17	3.51	+0.04	1.38	3-4	4.0	7	15	4	12	nw	Hiram E. Deats.
Freehold.....	Monmouth.....	194	40	33.1	+0.4	62	27	3	17	3.18	-0.84	1.06	5-6	3.7	6	13	11	7	w.	Moreau Plant Co.
Hammononton.....	Atlantic.....	95	53	34.6	+0.5	68	26	4	17	4.21	+0.47	1.20	3	2.0	6	13	7	11	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	110	51	33.2	+2.7	62	27	3	17	3.72	+0.25	1.76	3-4	4.2	5	9	11	11	nw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	55	33.1	+0.7	67	27	-1	17	3.78	-0.19	1.18	3	3.2	7	12	10	9	w	Edward Entwistle.
Jersey City.....	Hudson.....	81	46	32.2	-0.4	62	27	11	11	3.22	-0.48	1.65	3	.....	8	13	5	13	nw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	40	34.2	+2.0	65	27	6	17	4.72	+0.72	1.85	4	2.0	6	8	9	14	w	R. W. Holman.
Lambertville.....	Hunterdon.....	75	57	32.0	+1.2	59	27	0	17	3.82	+0.36	1.60	4	4.0	5	15	5	11	sw.	Mabel Wollaston
Layton††, 3 miles NW.....	Sussex.....	480	43	27.9	+2.3	62	27	-6	17	1.86	-1.12	0.69	6	7.2	5	12	6	13	nw.	A. M. Depue.
Little Falls.....	Passaic.....	157	41	30.8	+1.5	61	27	5	17	3.91	+0.24	2.38	4	6.0	7	13	10	8	nw	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	36	33.3	+1.3	63	27	11	17	4.34	+0.19	1.51	3	2.0	10	8	8	15	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	14	28.8	+1.1	60	27	-2	17	2.23	-0.94	1.10	6	6.0	6	15	8	8	nw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	3	.....	.....	.....	.....	.....	.....	3.09	.....	1.25	3	3.3	7	11	10	10	sw.	David Griscom.
Millville.....	Cumberland.....	69	4	.....	.....	.....	.....	.....	.....	4.07	.....	2.02	3	.....	8	14	8	9	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	81	34.2	+3.0	64	27	9	17	3.21	-0.03	1.60	3-4	2.2	7	9	8	14	nw	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	3	.....	.....	.....	.....	.....	.....	3.32	.....	1.49	3-4	9.9	6	13	7	11	.....	James C. Long.
Newark.....	Essex.....	10	90	32.6	+2.7	62	27	13	9†	4.45	+0.79	2.51	3-4	6.3	8	6	8	17	ne.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	90	33.4	+2.8	62	27-28	8	17	4.46	+1.06	2.35	3-4	1.7	6	14	7	10	nw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	26	.....	.....	.....	.....	.....	.....	3.54	+0.08	1.06	3-4	.....	8	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	61	30.2	+3.6	56	27	6	9	2.51	-0.79	1.22	3-4	.....	5	10	7	14	.....	Irving J. Kern.
Orange††.....	Essex.....	140	4	.....	.....	.....	.....	.....	.....	4.12	.....	2.40	3-4	.....	5	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	73	29.9	-0.3	61	28	6	17†	2.23	-1.32	0.93	5.6	4.1	7	11	14	6	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	15	34.4	-0.1	65	27	3	17	3.14	-0.34	1.30	3	3.1	6	11	8	12	w.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	56	31.6	+2.8	59	27	9	9†	3.60	+0.22	1.44	3	1.5	6	13	8	10	.....	Town Engineer.
Plainfield.....	Union.....	120	56	33.2	+2.9	62	27	10	17	4.45	+0.80	2.50	3-4	5.7	8	7	14	10	nw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	3	.....	.....	.....	.....	.....	.....	3.59	.....	1.44	3-4	1.5	7	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	46	33.9	+0.3	69	27	8	17	1.90	-1.30	1.05	3-4	.....	7	12	10	9	nw.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	5	.....	.....	.....	.....	.....	.....	4.70	.....	2.20	3-4	0.5	9	10	8	13	ne.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	27	31.3	+1.8	61	27	8	17	4.67	+1.01	1.81	3	6.0	7	10	11	10	n.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	21	29.0	-1.7	64	28	-8	17	4.57	+0.96	1.96	3-4	.....	6	14	9	8	w	N. J. Water Policy Comm.
Sandy Hook.....	Monmouth.....	15	46	33.3	+2.0	56	27	13	9	4.43	+0.47	2.64	3-4	2.0	11	8	12	11	nw.	U. S. Coast Guard.
Somerville.....	Somerset.....	385	61	32.0	+2.5	62	27	3	17	3.23	-0.29	2.15	3-4	2.5	7	13	5	13	e.	Norbert Larky.
Sussex.....	Sussex.....	450	49	29.5	+2.3	68	29	-3	17	2.25	-0.72	1.10	3-4	7.5	5	9	7	15	ue.	Marshall Hunt.
Toms River.....	Ocean.....	33	23	.....	.....	.....	.....	.....	.....	2.02	-1.90	1.72	3-4	2.5	7	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	72	33.8	+3.3	65	27	12	9	3.18	-0.13	1.35	3-4	2.5	8	9	10	12	n.	U. S. Weather Bureau.
Trenton No. 2.....	do.....	105	14	33.8	.....	65	27	11	9†	3.81	.....	1.36	4	1.1	9	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	51	36.7	+2.7	67	28	10	9	3.73	+0.06	1.80	3-4	3.4	5	13	4	14	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	64	.....	.....	.....	.....	.....	.....	3.85	+0.33	.....	.....	3.0	6	13	9	9	nw.	Robert Jones.
Westfield.....	Union.....	145	5	.....	.....	.....	.....	.....	.....	4.58	.....	2.76	3-4	1.5	6	15	9	7	sw.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	26	.....	.....	.....	.....	.....	.....	3.64	+0.10	1.68	3-4	.....	7	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	9	.....	.....	.....	.....	.....	.....	2.63	.....	.....	.....	3.0	4	15	7	9	w.	Geo. S. Keen.
New York, N. Y.....	.....	10	.....	34.2	+3.3	61	27	12	9	5.32	+1.66	3.42	3-4	5.6	9	8	11	12	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	74	34.0	+2.9	66	26	12	9	2.99	-0.31	1.38	3-4	3.2	9	5	10	16	nw	U. S. Weather Bureau.
For the State.....	.....	.....	.....	32.5	+1.6	69	27	-10	17	3.50	-0.15	2.76	3-4	4.3	7	11	9	11	nw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. ††Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also.

§Length of precipitation record; temperature record is much shorter.

*Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia, Pa.,—3-6-44-925.

Daily Precipitation for January 1944

Stations	Drainage Basin	Day of month																															Total			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Atlantic City ^{1†}	Coast			1.72	1.22	.32	.35									.47	.29							.03								T.	4.45			
Barnegat City ⁴	do.			2.01	1.10	.47	.19									.04	.30							.03								T.	4.14			
Relleplain	Tuckahoe			1.30	.75	.07	.20										.30							.68									T.	3.45		
B-lmar ²	Coast			1.50	1.08	.31	.67					T.				.13	.30	T.				T.	T.	.08					.05	.04	T.		T.	4.16		
Belvidere	Delaware			1.00	1.05		1.15																										T.	3.39		
Berlin	Mullica			1.00	1.10	.72	1.00									.20				.10													T.	4.12		
Boonton ³	Passaic				1.35	.35	1.04	.01									T.							.05	.07								.13	3.00		
Bridgeton	Delaware			1.40	.84	.06										.15	.44																.07	2.96		
Brooklawn	do.			.90	.96	.03	.92										.18							T.									.15	3.16		
Burlington	Delaware			.89	.93		.10										.08							.05									.65	2.10		
Canoe Brook ³	Passaic			T.	2.02		1.30										.07							.10	.03							.04	10	3.66		
Cape May ^{2†}	Coast			1.04	.23	.74	.02		T.							.45	.02		T.	T.	T.		.02	T.									T.	2.58		
Charlotteburg	Passaic			.26	1.79		1.16																	.18									.12	3.51		
Chatham ³	do.				2.00	1.06	1.20	.12									.05								.10								.10	4.75		
Chatsworth	Coast			.85	1.25		1.00										.37							T.										3.47		
Clayton	Delaware			1.50	1.20	.12	.90									T.	.12																	3.84		
Clinton	Raritan			1.22	1.28	T.	1.15										.05																.06	3.83		
Culvers Lake	do.			.47	.86		1.31																	.20								.12	T.	2.96		
Dover	Passaic			.60			1.55																	.16									.13	.01	2.45	
Egg Harbor City ²	Mullica																																			
Elizabeth	Coast			.90	2.56		1.35										.27							.16				T.				.09	.02		5.35	
Flemington	Raritan			.74	1.38	T.	1.05										.18							.07								.07	.02		3.51	
Freehold	do.			.85	1.05	T.	1.06										.09							.03								.10			3.18	
Hammonton	Mullica			1.20	1.18	.21	1.20										T.	.38				T.			.04										4.21	
Hightstown	Raritan			.90	1.76	T.	.94	T.									.09																T.		3.72	
Indian Mills	Mullica			1.18	1.07	.02	1.09										T.	.34							.01								.07		3.78	
Jersey City ²	Coast			1.65	1.10	.05	T.																	.14								.06		.07	3.22	
Lakewood	Metedeconk			.95	1.85		1.60										.20							.05								.07			4.72	
Lambertville	Delaware			1.00	1.60	.07	1.00										.15							T.								T.		3.82		
Layton	do.				1.02		.69																	.14								.01			1.86	
Little Falls ³	Passaic			.2	2.38	.02	1.23	.01									T.							.21								.04	.02		3.91	
Long Branch ^{2†}	Coast			1.51	1.31	.33	.77										.03	.16						.08								.07	.06	T.	.01	4.33
Long Valley ³	Raritan			.70	.14	1.10	.06																		.18								.05		2.23	
Moriton	Delaware			1.25	.54	.04	.97										T.	.16						.03								.10			3.09	
Millville ^{2†}	Maurice			2.02	.57	.62	.10										.39	.19						.04								.14			4.07	
Moorestown ³	Delaware			.15	1.60	.13	1.05											.15						.05								.08	T.		3.21	
Morris Plains	Passaic			.45	1.49		1.07	T.									T.							.18								.11	.02		3.32	
Newark ¹	Coast			1.28	1.46	.22	1.17										.09	T.				T.		.13				T.				.08	T.	.02	4.45	
New Brunswick	Raritan			.75	2.35		1.09										.10							.05								.11	.01		4.46	
New Milford ^{2†}	Hackensack			1.06	1.06	.09	.96										T.							.28								.05	.02	.02	3.54	
Newton	Delaware			.34	.88		1.03																	.15								.11			2.51	
Orange ^{2†}	Passaic			.26	2.40		1.29											.02						.15											4.12	
Paterson ²	do.			.60	.37	.13	.80										T.	.02						.23								.06		.04	2.23	
Pemberton	Delaware			1.33	.54	T.	.97										.22							.02								.09			3.14	
Phillipsburg	do.			1.44	1.09	.27	.60	T.									T.							.08								.12	T.	T.	3.60	
Plainfield	Raritan			* 2.82	T.	1.36			T.								.10							.09								.04	.03	.01	4.45	
Plainsboro	do.			.91	1.44		1.06										.07							.05								.03		.03	3.59	
Pleasantville ³	Coast			.17	1.05	.13	.10											.36							.04							.05	T.		1.90	
Rahway ^{2†}	Rahway			.90	2.20	.14	1.06										.10							.10								.08		.08	4.70	
Ridgefield	Hackensack			1.81	.87		1.68										.02	.03						.20								.03	T.	.03	4.67	
Rumyon	Coast			1.08	1.96		1.22										.11															.12			4.57	
Sandy Hook ^{4†}	do.			1.65	1.29	.58	.67										.02	.05						.05					.01	.03		.07	T.	.01	4.43	
Somerville	Raritan			.81	2.15	T.	.13										.04							.03								.06	.01	T.	3.23	
Sussex	Hudson			.20	.90		.75										T.	T.						.20								.20	T.		2.25	
Toms River	Coast			1.02	1.72	.06	1.64										.40							.10								.08			2.02	
Trenton ^{1†}	Delaware			.89	.78	.50	.69										.02	.24														.03	T.	T.	3.18	
Trenton No. 2 ²	do.			.98	1.36	.72	.53										.05	.04						.05												

Daily Temperatures for January 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum... 42	38	43	43	49	49	39	32	28	36	41	39	34	45	36	32	40	42	39	40	38	50	47	43	45	55	64	57	46	46	42	42.6
	Minimum... 25	26	37	35	36	31	27	21	14	22	30	24	20	25	30	24	23	30	35	30	27	32	33	30	31	40	33	41	39	32	28	29.4
Barnegat City†.....	Maximum... 43	40	42	48	49	49	39	31	32	37	47	40	38	57	38	34	38	43	42	49	37	50	48	42	45	50	65	52	48	44	42	43.8
	Minimum... 25	21	39	36	38	29	24	16	13	21	20	24	21	20	26	20	20	28	31	31	25	28	30	28	26	36	32	39	37	28	19	26.8
Belleplaiu.....	Maximum... 39	40	45	47	48	49	40	37	37	37	40	38	33	43	40	38	40	45	42	43	41	50	48	42	51	67	66	65	51	45	45	44.9
	Minimum... 18	15	29	32	32	33	22	15	8	14	11	16	15	11	21	24	10	19	25	25	24	21	30	23	14	28	25	46	34	24	12	21.8
Belvidere.....	Maximum... 42	33	31	44	40	39	35	26	27	30	35	29	37	40	39	33	31	40	37	34	38	41	41	40	43	46	52	53	43	41	40	38.1
	Minimum... 21	15	21	30	34	33	21	17	9	18	11	21	18	17	20	25	7	20	24	24	23	29	29	26	19	35	33	40	36	31	19	23.4
Boonton§§.....	Maximum... 42	33	36	40	41	40	34	21	36	33	42	37	34	42	35	30	37	45	38	45	43	45	42	40	49	44	60	43	43	36	40	30.5
	Minimum... 10	14	12	26	32	34	21	18	9	11	10	9	19	18	19	19	3	3	21	25	22	23	29	26	18	19	32	34	31	15	19.8	
Bridgeton.....	Maximum... 40	41	44	44	43	46	38	33	29	35	40	37	32	46	35	35	40	42	45	37	38	49	46	40	50	64	64	57	51	45	46	43.0
	Minimum... 24	23	31	33	35	32	26	22	13	19	20	22	19	16	25	26	14	33	30	28	30	24	33	27	22	30	31	48	38	30	21	26.6
Burlington.....	Maximum... 40	38	40	44	42	42	39	34	31	35	45	37	33	43	40	37	35	44	39	34	33	43	42	36	42	49	56	45	41	40	45	40.1
	Minimum... 24	22	29	27	35	35	26	20	11	20	22	24	23	20	22	28	22	27	30	29	27	28	30	30	27	32	31	31	35	33	20	26.5
Canoe Brook§§.....	Maximum... 42	37	35	39	43	45	38	27	32	38	46	39	39	46	36	34	38	40	42	47	39	47	47	43	51	47	67	47	45	45	42.2	
	Minimum... 6	6	10	27	32	34	25	17	9	13	17	9	18	16	16	16	3	2	13	22	21	26	27	26	14	20	26	34	33	29	13	18.5
Cape May*.....	Maximum... 38	39	45	42	48	46	39	29	29	34	39	38	32	45	36	34	40	43	44	36	36	50	48	39	43	62	67	55	49	44	41	42.3
	Minimum... 28	26	39	35	37	33	28	26	14	25	30	29	25	27	31	24	22	31	32	31	31	34	34	32	31	39	40	40	39	31	29	30.7
Charlotteburg.....	Maximum... 40	39	33	37	38	37	35	29	23	33	38	34	31	40	41	34	35	43	41	45	46	47	47	38	46	49	60	59	45	40	35	39.9
	Minimum... 20	4	23	29	32	31	21	11	6	15	0	26	15	19	16	17	10	15	18	14	29	27	23	9	38	29	35	34	26	11	19.4	
Chatsworth.....	Maximum... 44	40	42	42	43	47	40	35	28	34	45	39	32	43	40	33	41	43	41	40	39	48	47	44	52	58	66	65	48	44	45	43.5
	Minimum... 13	15	28	32	35	23	17	9	16	9	14	12	13	15	23	1	19	28	28	23	28	42	22	13	25	29	45	37	31	10	22.2	
Clayton.....	Maximum... 40	38	43	43	41	44	40	38	36	35	41	35	32	44	44	36	42	47	45	37	35	42	44	47	49	65	64	62	56	45	45	43.7
	Minimum... 22	21	30	33	35	36	26	26	12	10	17	21	20	16	23	25	8	29	29	28	26	27	33	29	20	31	30	49	39	30	20	25.8
Dover.....	Maximum... 40	32	36	37	41	40	34	21	36	33	39	33	40	33	32	34	41	36	44	40	42	39	38	46	48	58	50	40	37	38	38	38.4
	Minimum... 21	12	24	26	32	34	21	18	9	16	6	20	12	18	18	10	0	19	24	22	20	21	28	24	15	32	32	35	26	16	20.8	
Elizabeth.....	Maximum... 46	37	35	38	40	42	38	30	30	35	45	35	37	41	37	36	38	39	39	39	37	44	45	41	45	62	62	53	46	43	40	40.6
	Minimum... 19	20	25	32	35	34	22	17	10	15	14	25	20	20	20	25	8	20	23	29	27	27	30	27	19	33	30	39	35	29	17	24.1
Flemington.....	Maximum... 46	38	34	41	41	40	39	34	29	36	45	40	38	46	43	34	39	44	42	44	38	47	46	43	49	50	65	64	43	43	43	43.3
	Minimum... 23	18	26	33	35	34	25	20	11	18	12	25	20	19	20	25	1	17	23	25	25	27	30	28	20	34	32	42	35	32	20	24.3
Freehold.....	Maximum... 43	38	38	39	39	42	36	31	34	34	47	44	34	43	39	39	39	42	43	37	41	36	47	45	41	49	49	62	56	43	41	41.9
	Minimum... 22	18	26	31	33	33	24	18	8	17	16	24	18	19	24	20	3	20	30	30	24	29	32	27	24	34	28	38	35	30	19	24.3
Hammonton.....	Maximum... 41	41	43	43	44	48	38	32	29	36	46	37	34	45	41	35	42	48	40	38	35	49	46	49	52	63	68	59	50	45	46	44.1
	Minimum... 21	21	30	33	33	32	23	21	11	18	17	24	20	17	24	25	4	20	27	28	26	27	26	28	20	28	30	49	41	32	18	25.0
Hightstown.....	Maximum... 42	39	38	39	39	40	37	31	29	34	45	38	33	43	41	35	40	42	39	42	37	47	44	40	48	50	62	57	44	41	44	41.3
	Minimum... 23	19	25	33	35	34	24	20	11	18	14	25	19	20	22	25	3	21	28	30	27	28	31	28	21	34	32	40	35	30	20	25.0
Indian Mills.....	Maximum... 41	40	42	42	41	45	38	31	29	35	44	34	33	44	38	34	45	47	38	37	35	49	46	40	51	63	67	59	47	45	45	42.7
	Minimum... 19	16	28	33	36	36	22	18	10	15	12	17	17	12	18	25	1	24	26	28	26	28	31	24	15	32	30	47	39	32	13	23.5
Jersey City.....	Maximum... 42	40	46	46	45	44	40	30	31	32	39	43	40	37	30	34	38	38	43	42	48	48	42	48	48	62	54	49	39	45	41	41.9
	Minimum... 20	20	22	28	27	24	18	14	14	20	11	25	22	25	25	18	15	26	23	29	21	26	22	24	28	24	35	27	25	17	23	22.5
Lakewood.....	Maximum... 41	38	41	41	42	46	39	33	29	36	46	39	34	43	38	35	41	41	39	42	39	49	45	41	51	52	65	62	44	44	45	42.6
	Minimum... 25	22	26	34	34	36	25	20	12	19	12	25	22	18	26	26	6	41	33	30	25	31	31	28	22	36	31	42	39	31	16	25.9
Lambertville.....	Maximum... 42	41	35	40	40	40	37	30	30	29	44	35	34	45	41	36	48	40	42	37	45	45	43	50	56	59	58	44	38	44	41	41.3
	Minimum... 19	15	25	33	34	34	23	19	13	11	23	19	20	20	19	0	18	22	24	26	25	28	27	19	30	30	37	35	30	19	22.6	
Layton.....	Maximum... 40	32	27	44	42	38	35	25	25	31	32	33	31	42	38	31	39	36	45	46	47	40	40	36	50	62	57	41	40	35	38.5	
	Minimum... 12	5	20	26	29	31	21	12	4	9	1	17	17	4	9	25	6	9	13	15	16	30	23	24	10	31	28	35	33	25	11	17.3
Little Falls§§.....	Maximum... 43	33	35	39	40	42	35	35	28	35	41	36	42	34	30	37	44	37	46	41	45	43	42	46	44	61	41	43	37	38	39	39.6
	Minimum... 13	12	26	26	33	33	25	19	11	13	19	22	20	22	5	13	22	25	24	26	30	27	18	22	30	36	35	30	30	17	21.9	
Long Branch*.....	Maximum... 43	35	41	40	41	42	37	26	29	34	43	35	35	43	36	33	38	40	39	43	40	48	45	40	51	47	63	54	44	40	41	40.8
	Minimum... 24	22	27	35	35	29	25	17	12	19	16	25	20	21	25	16	11	25	31	31	25	31	35	28	33	37	30	38	28	20	25.8	

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CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION.
A. E. WHITE.
TRENTON. N. J.
VOL. XLIX. FEBRUARY 1944. No. 2

GENERAL SUMMARY.

February 1944 was not characterized by any marked temperature extremes. The monthly average was practically the same as for January this year, both months being a little warmer than normal. The coldest weather occurred on the 14th at most stations. Only five stations recorded temperatures below zero, however, and nearly half of them did not report a reading below 10° during the month. The period, 21st to 28th was considerably milder than normal, but the highest reading registered was 65°, which occurred at four stations on the 24th. December with an average of 31.1° has been the coldest month of the current winter.

Precipitation was only about two-thirds of normal and this was the fourth successive month with considerably less than normal amounts. The precipitation occurred mostly after the 10th of the month, but was well distributed thereafter. The heaviest amounts were generally on the 14-15th. Snowfall was below normal and occurred mostly on the 11th and 12th. At that time, depths ranged from about an inch in the extreme south to 8 or 9 inches in the extreme northern part of the State. Snowfall for the entire current season has also been unusually light to date (March 15).

There were no destructive storms, though gale winds around 50 miles an hour were registered in coastal areas on the 1st and 14th.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 42 stations, was 32.3°, which was 1.7° above normal. The highest temperature was 65° at four stations on the 24th, and the lowest, -7°, at Runyon on the 14th. The highest monthly mean temperature was 36.6° at Cape May, and the lowest, 27.8°, at Layton.

The temperature departure from the normal for the year 1944 to date, for the State, is +1.6°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 58 stations, was 2.35 inches, which was 1.20 inches below normal. The average total snowfall at 20 selected stations was 7.0 inches, which was 1.8 inches below normal. The greatest monthly precipitation was 4.15 inches at Toms River and the least, 1.48 inches at Layton. The greatest amount of precipitation in any 24 consecutive hours was 1.30 inches at Belvidere on the 12th.

The average for the Highlands was 2.44 inches; for the Red Sandstone Plain, 2.44 inches; for the Southern Interior, 2.27 inches; and for the Sea Coast, 2.38 inches.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: the Highlands, -1.52 inches; Red Sandstone Plain, -0.75 inch; Southern Interior, -1.52 inches; Sea Coast, -0.97 inch.

DATES OF MISCELLANEOUS PHENOMENA.												
HEAVY FOG: 17, 18, 22, 23, 27, 28.												
SLEET: 1, 4, 11, 12, 14, 17, 18, 22, 23, 24, 26, 27, 29.												
PRESSURE, WIND, HUMIDITY AND SUNSHINE												
Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.	
Atlantic City.....	30.59	19	29.47	23	16.4	51	e.	27	75	66	73	840
Long Branch.....	30.57	19	29.38	23	12.5	52	nw.	1	75	58	66	927
Trenton.....	30.63	19	29.41	23	10.0	34	nw.	1	74	60	68	916

COMPARATIVE DATA FOR FEBRUARY.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	23.9	54	-2	3.93				
1886.....	23.9	64	-10	5.42				
1887.....	33.9	69	-6	5.24		13		
1888.....	30.6	60	-5	3.53		8		
1889.....	27.7	53	-3	2.49		10		
1890.....	33.9	76	14	4.17		10		
1891.....	38.0	71	1	5.11		14	6	9
1892.....	33.6	58	-7	1.63		7	7	13
1893.....	30.1	63	-1	5.73		11	7	13
1894.....	29.7	62	-11	4.42		11	9	11
1895.....	23.6	57	-12	1.28	11.6	5	13	6
1896.....	32.1	62	-12	6.77	6.7	12	9	11
1897.....	32.5	59	-6	3.61	8.0	8	8	10
1898.....	32.7	65	-15	3.48	2.0	9	12	9
1899.....	25.8	60	-17	6.06	31.3	15	10	12
1900.....	31.0	69	-6	5.30	9.6	10	9	10
1901.....	25.4	52	-6	0.84	4.9	4	15	4
1902.....	27.4	62	-7	6.24	16.5	9	12	10
1903.....	33.7	70	-16	4.87	6.7	10	12	8
1904.....	24.8	65	-16	2.45	5.6	8	13	8
1905.....	23.4	53	-18	2.53	7.3	7	14	7
1906.....	30.9	64	-12	2.58	5.4	7	14	7
1907.....	23.6	55	-22	2.67	20.8	8	14	7
1908.....	28.1	65	-17	4.79	11.9	9	10	9
1909.....	37.8	72	-2	4.96	2.3	12	6	10
1910.....	30.5	69	-11	3.08	6.2	10	10	9
1911.....	30.9	67	-12	2.78	11.2	11	8	13
1912.....	27.7	61	-14	2.49	2.8	5	11	12
1913.....	30.6	70	-5	2.49	3.5	7	16	6
1914.....	25.9	67	-12	2.85	15.1	9	12	9
1915.....	35.7	75	-7	5.37	3.5	8	11	6
1916.....	28.1	63	-18	4.21	11.4	11	10	13
1917.....	28.1	62	-19	1.95	8.3	11	10	9
1918.....	29.0	67	-23	2.08	2.6	7	12	8
1919.....	33.6	65	-4	3.39	1.2	10	15	4
1920.....	27.9	54	-17	4.20	20.0	11	11	10
1921.....	34.0	71	-5	3.81	13.6	10	10	10
1922.....	33.6	73	-10	2.94	8.5	10	10	10
1923.....	26.1	56	-12	2.58	13.8	12	10	10
1924.....	28.9	62	-3	4.10	11.9	9	13	11
1925.....	37.3	72	-1	2.23	0.7	7	12	6
1926.....	29.4	57	-11	4.54	21.2	11	9	14
1927.....	36.1	66	-4	3.12	5.1	11	10	8
1928.....	32.1	63	-6	4.05	4.4	10	12	7
1929.....	31.6	63	-9	4.06	9.2	8	13	7
1930.....	35.6	80	-10	2.80	4.2	9	13	7
1931.....	33.3	62	-9	2.18	3.0	8	14	5
1932.....	35.9	69	-4	2.16	2.2	9	11	6
1933.....	33.5	67	-12	3.33	10.4	10	12	6
1934.....	18.6	54	-26	2.77	22.7	8	15	6
1935.....	30.1	64	-21	2.80	6.8	9	12	7
1936.....	24.4	66	-17	3.10	9.6	10	13	5
1937.....	34.0	65	-4	2.30	3.8	8	11	7
1938.....	35.5	70	6	2.31	1.1	10	9	6
1939.....	36.3	74	1	5.55	2.0	11	11	6
1940.....	31.9	65	-1	3.03	12.2	11	12	6
1941.....	29.4	53	-5	2.47	8.8	6	16	5
1942.....	29.7	63	-5	2.69	1.2	6	14	6
1943.....	32.9	71	-25	2.01	3.8	8	14	6
1944.....	32.3	65	-7	2.35	7.0	9	10	7
Period.....	30.6	80	-31	3.55	8.8	9	11	7

Climatological Data for February 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	71	35.9	+2.3	56	23	17	19	2.64	-0.84	0.85	14-15	1.1	9	7	7	15	w.	U. S. Weather Bureau.
Barneget City.....	Ocean.....	36	5	35.3	.....	60	6	15	19	3.06	.....	1.04	11-12	.....	10	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	50	34.0	+1.3	65	24	8	14	2.42	-0.91	0.92	14-15	5.4	11	11	8	10	n.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	3	.....	.....	.....	.....	.....	.....	2.50	.....	0.86	14-15	.....	10	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	52	31.2	+3.0	57	24	5	14	3.73	+0.17	1.30	12	13.7	12	11	6	12	.....	Miss C. S. Hixson.
Berlin.....	Camden.....	70	3	.....	.....	.....	.....	.....	.....	2.30	.....	0.80	11	2.0	5	11	10	8	.....	Samuel H. McCulley.
Boonton.....	Morris.....	280	54	29.0	+1.0	58	24	2	14	2.17	-1.13	0.76	14-15	.....	8	10	6	13	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	61	35.6	+1.6	65	24	16	14	2.01	-1.21	0.72	14-15	0.9	11	11	2	16	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	3	.....	.....	.....	.....	.....	.....	2.03	.....	0.58	14-15	4.0	8	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	58	33.6	+0.4	60	24†	12	14	2.27	-1.05	0.78	14-15	6.2	12	11	7	11	uw.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	14	29.8	+1.2	61	24	-6	14	2.81	-0.04	0.86	14	.....	8	12	9	8	w.	U. S. Water Policy Comm.
Cape May.....	Cape May.....	17	56	36.6	+2.5	54	23	20	19	1.77	-1.52	0.61	14	2.0	9	4	12	13	nw.	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	52	28.6	+1.1	57	24	4	14†	2.71	-0.98	1.01	14-15	11.8	8	10	3	16	w.	Newark Water Dept.
Chatham.....	Morris.....	185	40	.....	.....	.....	.....	.....	.....	3.00	-0.87	0.89	14-15	17.5	7	12	6	11	.....	Paul Molitor, Jr.
Chatsworth.....	Burlington.....	90	4	33.1	.....	65	24	4	14	2.24	.....	0.80	14-15	.....	8	7	8	14	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	31	34.0	+2.4	63	24	11	20	.....	.....	.....	.....	4.6	7	10	3	16	n.	Worthy Hitt.
Clinton.....	Hunterdon.....	300	1	.....	.....	.....	.....	.....	.....	2.30	.....	0.72	14-15	7.3	13	12	7	10	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	43	.....	.....	.....	.....	.....	.....	2.11	-0.85	0.50	11	12.4	9	.....	.....	.....	.....	L. S. Depue.
Dover.....	Morris.....	600	60	29.0	+1.8	57	24	3	14	2.61	-1.10	0.85	14-15	8.9	11	8	10	11	.....	William C. Harris.
Egg Harbor City.....	Atlantic.....	63	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chas. E. Hall.
Elizabeth.....	Union.....	34	65	32.4	+1.2	60	24	9	13	2.82	-1.04	0.85	14-15	10.5	11	12	9	8	nw.	Union County Park Comm.
Flemington.....	Hunterdon.....	140	58	32.7	+2.4	64	24†	1	14	2.40	-0.92	0.73	14-15	7.8	11	10	7	12	w.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	40	32.7	+1.6	61	21	9	14	2.31	-1.63	0.78	14-15	6.0	9	14	6	9	w.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	58	34.0	-0.5	65	24	13	13	1.70	-1.54	0.35	26	4.3	9	12	6	11	ne.	J. G. Wilson.
Hightstown.....	Mercer.....	110	51	33.2	+2.2	60	24	10	13†	2.10	-1.29	0.63	14-15	8.7	9	9	8	12	nw.	James R. Pickering.
Indian Mills††, 2 mi. W.....	Burlington.....	100	55	33.4	+0.7	64	24	7	14	2.17	-1.50	0.71	14-15	3.9	11	8	10	11	nw.	Edward Entwistle.
Jersey City.....	Hudson.....	81	46	.....	.....	60	21	.....	.....	2.41	-1.52	0.65	14-15	.....	11	11	10	8	nw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	40	31.4	+2.9	61	24	6	14	2.67	-1.22	0.90	14-15	6.0	9	8	4	17	nw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	57	32.5	+1.9	62	24	4	14	2.20	-1.18	0.51	14-15	7.0	8	12	6	11	nw.	Mabel Wollaston.
Layton††, 3 miles NW.....	Sussex.....	480	43	27.8	+2.5	55	24	3	19	1.48	-1.51	0.62	11-12	14.3	6	7	5	17	nw.	A. M. Depue.
Little Falls.....	Passaic.....	157	41	30.9	+0.6	60	24	4	14	2.49	-1.31	0.99	14-15	8.6	9	14	7	8	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	36	32.9	+1.6	61	24	13	13†	2.80	-1.33	0.88	14-15	7.1	9	9	7	13	nw.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	14	28.5	+1.0	58	24	-6	14	3.27	+0.45	1.28	14-15	12.0	9	13	6	10	w.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	3	.....	.....	.....	.....	.....	.....	1.95	.....	0.58	14-15	3.5	8	11	4	14	nw.	David Griscom.
Millville.....	Cumberland.....	60	4	.....	.....	.....	.....	.....	.....	2.22	.....	0.80	14-15	.....	8	10	7	12	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	81	32.4	+0.6	60	24	11	14	1.91	-1.34	0.59	14-15	4.2	6	7	13	9	nw.	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	3	.....	.....	.....	.....	.....	.....	2.08	.....	0.80	14-15	10.5	9	12	6	11	.....	James C. Long.
Newark.....	Essex.....	10	90	32.0	+2.4	60	24	9	14	2.46	-0.99	0.91	14-15	10.5	10	8	9	12	nw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	90	33.0	+1.9	60	24†	7	14	2.60	-0.77	0.68	11	9.9	9	12	7	10	uw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	26	.....	.....	.....	.....	.....	.....	2.17	-0.90	0.79	14-15	.....	9	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	61	28.8	+1.6	56	21	-5	14	1.52	-1.63	0.39	10-11	11.1	6	10	9	10	nw.	Irving J. Kern.
Orange††.....	Essex.....	140	4	.....	.....	.....	.....	.....	.....	2.49	.....	0.89	14-15	.....	6	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	73	29.6	-1.1	59	24	6	14	2.04	-1.94	0.86	14-15	8.5	11	10	10	9	.....	J. W. Cook.
Pemberton.....	Burlington.....	55	15	35.0	+1.4	63	24†	11	14	1.95	-0.81	0.69	14-15	4.0	10	9	5	15	w.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	56	30.2	+1.3	58	24	2	14	2.23	-1.08	0.41	11	10.2	10	10	10	9	.....	Town Engineer.
Plainfield.....	Union.....	120	56	32.3	+2.6	60	24	10	14	2.57	-1.18	0.83	14-15	10.5	13	8	8	13	nw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	3	.....	.....	.....	.....	.....	.....	1.88	.....	0.64	14-15	4.5	7	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	46	34.2	+0.6	56	23	9	2	1.96	-0.94	0.88	14-15	.....	8	12	4	13	nw.	N. J. Water Policy Comm.
Ridgefield.....	Union.....	20	5	.....	.....	.....	.....	.....	.....	2.37	.....	0.75	14-15	9.4	10	9	13	7	ue.	Louis Fontenelli.
Ridgewood.....	Bergen.....	80	27	30.8	+1.0	58	24	10	14	2.86	-1.04	0.99	14-15	11.1	11	9	11	9	nw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	21	30.0	-0.8	50	25	-7	14	2.85	-0.43	0.92	11	.....	9	15	9	5	w.	N. J. Water Policy Comm.
Sandy Hook.....	Monmouth.....	15	46	34.6	+2.5	56	24	13	19	2.21	-1.54	0.80	11-12	7.3	10	10	6	13	nw.	U. S. Coast Guard.
Somerville.....	Somerset.....	385	61	31.4	+1.5	60	24	11	7†	1.96	-1.49	0.65	14-15	7.1	7	7	8	14	w.	Norbert Larky.
Sussex.....	Sussex.....	450	49	29.9	+3.0	56	24	-5	14	1.95	-1.01	0.55	14-15	11.4	8	11	5	13	nw.	Marshall Hunt.
Toms River.....	Ocean.....	33	23	.....	.....	.....	.....	.....	.....	4.15	+0.05	1.25	26	4.0	7	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	72	33.4	+2.6	61	24	14	19	1.99	-1.42	0.59	11-12	5.0	11	8	7	14	n.	U. S. Weather Bureau.
Trenton No. 2.....	.....do.....	105	14	33.2	.....	61	24	10	14	2.49	.....	0.75	14	6.3	8	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	51	36.2	+2.9	60	24	12	13†	1.85	-1.64	0.81	14-15	3.0	9	12	2	15	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	64	.....	.....	.....	.....	.....	.....	1.77	-1.51	0.94	14-15	.....	7	6	12	11	nw.	Robert Jones.
Westfield.....	Union.....	145	5	.....	.....	.....	.....	.....	.....	2.39	.....	0.68	14-15	11.0	8	12	8	9	n.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	26	.....	.....	.....	.....	.....	.....	2.27	-0.87	0.87	14-15	.....	9	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	9	.....	.....	.....	.....	.....	.....	1.70	.....	.....	.....	.....	8	9	10	10	w.	Geo. S. Keen.
New York, N. Y.....	.....	10	.....	32.6	+1.3	59	24	12	19	2.20	-1.77	0.81	11-12	10.8	10	9	8	12	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	74	33.8	+1.3	63	24	15	13	1.93	-1.50	0.52	14	4.7	9	4	10	15	nw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	32.3	+1.7	65	24	-7	14	2.35	-1.20	1.30	12	7.0	9	10	7	12	nw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. ††Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also. ‡Length of precipitation record; temperature record is much shorter. *Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia, Pa., -3-28-44-925.

Daily Precipitation for February 1944

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast		T.		T.		T.	T.		T.		.56	.10		.71	.14		.10	T.				.07	T.			.44	.02		.50			2.64	
Barnegat City ⁴	do.											.66	.38		.73	.02		.35	.18				.04				.13	.20		.37			3.06	
Belleplain	Tuckahoe			.04			T.			T.		.30	.10	.10		.92		.07	.15				.06	.14			.24		.30			2.42		
Belmar ²	Coast											.54	.03		.63	.23	T.	.18	.01			T.				.29	.20	T.	.32			2.50		
Belvidere	Delaware	.03						.06				.40	1.30		.05	.44		.06	.12			T.				.57	.21		.04			3.73		
Berlin	Mullica		T.									.80			.50								.45		T.		.60			.20			2.30	
Boonton ³	Passaic	T.						T.	.01			.10	.43	T.		.76			.20				.27				.28	.12		.20			2.17	
Bridgeton	Delaware			T.								.34	.06		.17	.55		.06	.05				.08	.09			.22	.04		.35			2.01	
Brooklawn	do.											.31	.19			.58			.14				.19	T.			.35	.18		.09			2.03	
Burlington	Delaware											.12	.30	.20	.20	.58		.03	.17				.06	.02			.27	.17		.15			2.27	
Canoe Brook ³	Passaic	.03				T.	T.		.02			.19	.78			.86			.23								.28	.43					2.81	
Cape May ^{2†}	Coast		T.	T.	T.	T.	.01			T.		.27	.01		.61	T.		.12	T.			T.		.15		T.	.09	.02		.49			1.77	
Charlotteburg	Passaic							.05				.34	.42			1.01			.20				.22				.07	.40					2.71	
Chatham ³	do.					T.			.03				.84	.33		.89			.20					.26				.43	T.				3.00	
Chatsworth	Coast											.40	.06			.80			.14					.06			.23	.24		.31			2.24	
Clayton	Delaware																																	
Clinton	Raritan	.03						.03				.33	.28		.08	.64		.04	.09				.25	.02			.24	.22		.05			2.30	
Culvers Lake	do.	T.						.02				.50	.25			.39			.18				.21	.01			.40	.15	T.	T.			2.11	
Dover	Passaic							.04					.70			.85			.21				.32					.31		.18			2.61	
Egg Harbor City ²	Mullica																																	
Elizabeth	Coast	.01			.02			T.		T.		.53	.32		T.	.85		T.	.31				.19	.03			.23	.24		.09			2.82	
Flemington	Raritan				T.					T.		.36	.19			.73		T.	.21				.19	.02			.28	.28		.08			2.40	
Freehold	do.	.02			T.					T.		.47	.10	.04	T.	.78		T.	.23				.05	T.			.21	.27	.06	.14			2.31	
Hammonton	Mullica			.03				T.				.30	.11			.18		T.	.11				T.	.18			.35	.15		.29			1.70	
Hightstown	Raritan	T.			T.					T.			.59	.01		.63		T.	.18				.07	.01			.24	.23		.14			2.10	
Indian Mills	Mullica	T.			T.			T.				.40	.07		.06	.65		.03	.13				.03	.10			.31	.12		.27			2.17	
Jersey City ²	Coast	T.						.02				.48	.14		.40	.25		.26	.18				.18				.25	.15		.10			2.41	
Lakewood	Metedeconk				T.							.52	.12			.90		T.	.21				.06	.06			.30	.20		.30			2.67	
Lambertville	Delaware											.48	.25		T.	.51		T.	.15				.10	T.			.38	.24	T.	.09			2.20	
Layton	do.	.02					.20			T.		.33	.29			.15			.03				.01	T.				.45					1.48	
Little Falls ³	Passaic							.02				.24	.49	.01		.99			.18					.16				.39	.01				2.49	
Long Branch ^{2†}	Coast	T.				T.	T.			T.		.83	.12		.64	.24	T.	.21	T.				.09		.16		.23	.20		.24			2.80	
Long Valley ³	Raritan	.10											.60	.20		1.28			.26					.30				.20	.23				3.27	
Marlton	Delaware					T.			.10			.40	.10			.58		T.	.14				.10		.30			.40	.13		.10		1.95	
Millville ^{2†}	Maurice											.39	.04		.72	.08		.10					.14				.33			.42			2.22	
Moorestown ³	Delaware			T.				T.				.10	.48			.59			.16				.14		.06			T.		.52			1.91	
Morris Plains	Passaic	T.				T.		.03				.38	.28			.80							.16	.08			.22	.12		.01			2.08	
Newark ¹	Coast				T.			T.		T.		.52	.12		.90	.01		.28	T.				.24	.01			.17	.16		.05			2.46	
New Brunswick	Raritan	.01				T.				T.		.68	.49			.57		T.	.14				.09	T.			.25	.29		.08			2.60	
New Milford ^{2†}	Hackensack	.02						.02				.10	.58			.02			.13					.12				.37	.04				2.17	
Newton	Delaware	T.				T.		.15				.39	.21						.13				.19				.36	.22	T.				1.52	
Orange ^{2†}	Passaic											.43	.37			.89			.21					.25				.34					2.49	
Paterson ²	do.					T.		.02				.39	.18		.74	.12		.18	.02				.18	T.		.25		.15	.05		.01			2.04
Pemberton	Delaware	.02							T.	T.		.28	.07		.69			T.	.14					.02	.06			.39	.14		.14			1.95
Phillipsburg	do.					T.			.08			.41	.27		.20	.25	T.	.09	.14				.34	T.			.25	.20		T.			2.23	
Plainfield	Raritan	.01				T.			.01			.50	.20		.33	.50		.12	.08					.16	.04			.27	.30		.05			2.57
Plainsboro	do.											.33	.45			.64			.03								.06	.30					1.88	
Pleasantville ³	Coast		T.	T.	T.			T.				.05	.44			.88			.14				.43		.11		.01	.30	T.	.03			1.96	
Rahway ^{2†}	Rahway											.64	.11		.60	.15		.21	.04				.18				.20	.22		.02			2.37	
Ridgefield	Hackensack	T.				T.		.01		T.		.72	.28		.17	.82		.07	.16				.25	T.			.15	.18		.05			2.86	
Runyon	Coast	.04										.92	.06			.72			.26				.08				.10	.55		.12			2.85	
Sandy Hook ^{4†}	do.	.01				T.				T.		.78	.05		.57	.01	T.	.22	T.				.07				.30	.11		.09			2.21	
Somerville	Raritan							T.				.39	.21		.65			T.	.12				.12	T.			.12			.35			1.96	
Sussex	Hudson	T.						.20		T.		.53	.25		.05	.50			T.				.10	T.			.22	.10		T.			1.95	
Toms River	Coast											.25			.25			.75					.50				1.25	1.00		.15			4.15	
Trenton ^{1†}	Delaware	T.			.01			T.		T.		.56	.09		.44	.05		.13	.01				.06				.32	.26		.06			1.99	
Trenton No. 2 ²	do.											.55	.14					.17					.13				.34	.27		.14			2.49	
Tuckerton	Coast					T.					</																							

Daily Temperatures for February 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*	Maximum...	42	38	41	41	43	50	41	38	36	37	36	32	52	49	38	45	49	30	37	48	43	56	53	47	40	43	47	38	38	42.3	
	Minimum...	24	21	32	31	28	28	25	25	27	26	33	19	18	26	34	29	36	30	17	28	30	37	40	38	33	37	37	36	31	29.5	
Barnegat City†	Maximum...	43	38	42	41	45	60	43	35	39	37	45	41	36	46	51	37	46	56	29	39	49	43	53	56	44	40	41	45	45	43.6	
	Minimum...	20	19	30	27	20	24	19	23	26	23	31	19	18	28	35	27	36	23	15	21	31	31	35	33	31	36	36	29	29	27.0	
Belleplain	Maximum...	44	38	43	41	49	51	43	41	37	39	36	37	46	51	40	43	49	43	38	47	44	54	65	63	50	55	55	49	49	45.8	
	Minimum...	27	7	21	24	13	37	9	19	19	17	20	21	10	8	33	17	26	37	13	13	24	21	40	24	24	30	30	27	29	22.1	
Belvidere	Maximum...	38	35	42	40	44	44	37	34	31	35	30	28	25	31	45	35	37	45	33	37	45	39	45	57	52	45	36	42	39	38.8	
	Minimum...	21	18	25	28	20	31	19	17	18	20	19	19	11	5	30	22	26	36	11	17	28	25	38	29	26	31	31	33	32	23.7	
Boonton§§	Maximum...	27	36	41	40	49	50	33	29	30	34	23	27	31	47	42	35	43	45	30	36	44	49	50	58	47	34	38	44	36	38.9	
	Minimum...	16	16	15	28	19	18	14	15	16	16	16	15	14	2	4	22	22	24	10	10	17	24	26	28	25	29	31	33	31	19.1	
Bridgeton	Maximum...	42	37	42	44	49	51	43	41	37	36	34	34	30	45	55	45	45	49	40	38	46	44	55	65	61	45	45	45	38	44.2	
	Minimum...	29	18	28	28	21	36	19	23	24	24	25	22	17	16	35	26	30	38	18	20	29	28	33	30	31	35	35	35	32	27.1	
Burlington	Maximum...	41	37	42	44	47	46	50	38	32	35	33	28	29	39	48	39	42	47	42	36	45	45	53	60	60	59	40	39	42	42.7	
	Minimum...	28	21	28	28	21	21	19	20	23	22	22	21	15	12	20	27	28	35	13	18	22	28	30	33	34	32	31	33	33	24.4	
Canoe Brook§§	Maximum...	30	40	46	48	51	52	38	31	34	38	22	28	34	52	43	40	44	52	34	40	48	51	53	61	53	39	36	48	39	42.2	
	Minimum...	15	15	20	22	12	15	9	14	13	19	17	15	10	-6	0	20	18	20	10	10	17	20	28	24	26	27	29	31	31	17.3	
Cape May*	Maximum...	43	43	43	42	47	51	43	37	36	39	37	37	29	52	49	41	43	47	34	39	46	45	54	52	47	42	42	46	39	42.9	
	Minimum...	26	26	32	30	29	29	26	27	28	26	33	27	27	35	30	33	33	33	20	29	33	35	39	35	32	37	38	35	33	30.3	
Charlotteburg	Maximum...	35	34	42	40	38	47	35	33	29	31	29	26	27	34	45	40	35	44	37	35	43	42	46	57	56	45	35	42	37	38.6	
	Minimum...	17	13	25	25	12	31	9	13	13	10	14	16	11	4	29	12	20	32	4	10	20	22	30	30	26	20	25	30	30	18.7	
Chatsworth	Maximum...	40	37	44	43	48	53	46	35	37	37	33	33	28	41	52	38	42	48	45	37	45	45	63	65	56	47	42	43	42	43.6	
	Minimum...	26	9	25	23	17	38	8	16	15	15	15	25	14	4	34	15	26	38	10	10	20	16	41	34	26	35	34	34	31	22.6	
Clayton	Maximum...	44	37	45	43	43	52	40	37	37	37	38	38	36	35	44	51	43	48	41	35	47	44	63	61	50	43	43	38	43	43.0	
	Minimum...	29	15	29	30	20	29	21	23	25	22	24	22	22	12	24	35	24	29	18	11	19	27	27	29	29	34	35	32	26	24.9	
Dover	Maximum...	34	35	42	39	42	46	33	32	29	32	24	27	30	35	45	34	35	44	30	35	43	39	47	57	46	33	34	44	35	37.3	
	Minimum...	14	14	25	27	17	25	14	15	15	15	13	11	3	29	20	22	19	8	12	26	26	37	32	26	27	30	33	26	30	20.6	
Elizabeth	Maximum...	38	37	46	45	46	47	37	35	31	37	33	30	35	39	40	37	40	50	38	37	48	41	51	60	56	45	36	51	43	41.6	
	Minimum...	21	17	24	27	18	31	15	18	20	18	18	20	9	5	35	23	27	34	11	11	23	24	38	28	26	32	33	32	32	23.1	
Flemington	Maximum...	40	37	45	43	47	47	40	37	32	38	32	28	36	35	45	39	37	47	46	36	49	47	50	64	64	33	35	43	41	41.8	
	Minimum...	25	18	27	28	18	30	17	18	18	19	17	20	11	1	32	24	24	33	12	17	28	26	38	29	26	32	31	32	32	23.6	
Freehold	Maximum...	41	36	42	42	45	50	38	36	30	35	30	28	31	39	49	36	40	48	42	36	45	43	51	61	54	44	38	44	40	41.2	
	Minimum...	24	15	25	29	20	33	18	18	19	20	19	12	9	33	22	29	34	11	18	25	28	40	30	26	31	31	32	30	30	24.2	
Hammonton	Maximum...	43	38	45	47	49	52	41	38	37	38	34	35	33	43	48	42	43	45	36	37	45	52	55	58	50	43	43	41	41	43.5	
	Minimum...	27	17	29	24	19	23	15	21	25	21	22	27	13	18	32	23	30	18	14	18	25	28	30	25	28	33	35	32	32	41.2	
Hightstown	Maximum...	40	36	43	44	46	49	38	37	30	36	31	27	29	38	49	37	40	48	39	36	45	43	51	60	57	43	38	44	41	41.2	
	Minimum...	26	19	27	30	21	36	19	20	22	20	21	20	10	10	34	24	26	34	13	19	26	29	41	31	27	32	32	34	31	25.3	
Indian Mills	Maximum...	42	37	45	43	48	53	40	39	37	36	32	31	30	41	51	41	42	48	40	37	46	44	53	64	55	45	41	43	40	42.9	
	Minimum...	27	13	28	29	15	35	10	20	16	18	22	15	7	55	17	25	38	13	11	25	24	49	28	23	34	35	32	32	32	23.8	
Jersey City	Maximum...	28	38	44	42	49	40	43	35	33	34	30	26	29	52	55	49	42	36	38	42	47	52	54	60	55	46	50	52	42	42.9	
	Minimum...	41	37	44	43	49	53	40	39	36	37	33	32	30	40	51	39	42	49	42	37	47	45	53	64	66	47	39	45	43	43.3	
Lakewood	Maximum...	25	18	27	28	20	34	16	23	22	22	20	24	15	6	36	22	27	39	14	15	28	26	42	30	27	32	33	33	33	25.4	
	Minimum...	40	37	43	43	46	47	38	37	33	40	32	28	33	39	47	37	39	48	38	36	52	42	50	62	56	46	38	41	40	41.7	
Lambertville	Maximum...	24	19	27	27	18	34	18	20	18	20	18	18	13	4	33	22	24	33	11	11	24	25	39	28	25	31	30	32	31	23.3	
	Minimum...	37	35	40	37	43	50	34	32	30	31	22	19	30	31	44	38	35	43	34	37	42	36	46	55	53	35	35	40	38	37.3	
Layton	Maximum...	16	11	28	21	12	30	11	12	12	15	12	17	10	10	26	10	17	22	3	6	20	21	35	24	20	21	26	31	30	18.2	
	Minimum...	26	37	44	42	52	41	35	31	31	34	27	30	33	48	43	36	43	47	43	37	46	49	49	60	49	33	39	46	46	40.6	
Little Falls§§	Maximum...	23	16	22	26	19	26	15	17	17	14	16	17	12	4	12	22	22	28	11	14	25	24	33	30	27	28	33	33	33	21.2	
	Minimum...	38	36	43	43	42	53	38	32	34	35	31	30	30	45	45	36	40	49	30	38	47	48	54	61	48	38	38	38	38	41.0	
Long Branch*	Maximum...	20	17	26	29	22	28	19	22	23	23	23	16	13	13	30	25	32	20	13	19	28	30	36	32	30	32	34	34	30	24.8	
	Minimum...	32	35	43	40	46	47	34	32	30	33	25	30	31	44	40	35	39	42	29	35	44	44	47	58	49	34	40	45	35	38.6	
Long Valley§§	Maximum...	15	12	22	23	14	33	11	10	14	10	13	13	9	-6	28	17	17	30	5	10	20	19	34	26	25	26	27	29	29	18.4	
	Minimum...	30	35	42	42	51	51	38	36	32	36	27	26	29	40	49	40	40	46	30	35	44	50	52	60	49	38	40	42	39	40.2	
Moorestown*	Maximum...	23	21	30	28	2																										

551.05
IN N

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

MAY 2 1944

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX.

MARCH 1944.

No. 3

GENERAL SUMMARY.

March this year was comparatively cold and wet. No zero temperatures were recorded as is sometimes the case in March, but the State average temperature was 2.1° below normal, and all stations except one showed minus departures for the month. Greater than normal warmth prevailed from the 12th to 17th and from the 23d to 28th, but monthly maxima were lower than are usually reached in March.

This was one of the five wettest Marches of record. Precipitation for the State averaged 151 percent of normal. Moderately heavy rains fell on the 7th, and heavy rains on the 12-13th, with light to moderate amounts on numerous other days. It was the first month since October, 1943 and the third month during the past year with as much as normal precipitation. Thus the excess amount this month was beneficial in restoring soil moisture. Snowfall was slightly greater than normal, this being the only month during the current season with as much as the normal amount of snow.

Due to the cold, wet weather, vegetation developed slowly and at the close of the month was about ten days behind the usual advancement for the season. Planting of potatoes and other early crops was also delayed. Conditions were favorable for fruit development, however, and at this time, April 15th, prospects are considered good for tree fruits in New Jersey this year.

No destructive storms occurred.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 41 stations, was 37.1°, which was 2.1° below normal. The highest temperature was 74° at Belleplain on the 16th, and the lowest, 2°, at Chatsworth on the 6th. The highest monthly mean temperature was 40.5° at Bridgeton, and the lowest, 32.4°, at Layton.

The temperature departure from the normal for the year 1944 to date, for the State, is +0.4°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 61 stations, was 5.70 inches, which was 1.93 inches above normal. The average total snowfall at 22 selected stations was 6.3 inches, which was 1.8 inches above normal. The greatest monthly precipitation was 7.47 inches at Ridgefield, and the least, 2.75 inches at Layton. The greatest amount of precipitation in any 24 consecutive hours was 2.52 inches at Pleasantville on the 12-13th.

The average for the Highlands was 4.90 inches; for the Red Sandstone Plain, 6.02 inches; for the Southern Interior, 5.84 inches; and for the Sea Coast, 4.94 inches.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: the Highlands, -0.09 inch; Red Sandstone Plain, +1.45 inches; Southern Interior, +0.47 inch; Sea Coast, +0.07 inch.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 6, 7, 13, 16, 17, 23, 27, 29, 30.

THUNDERSTORMS: 16, 17, 27, 29.

SLEET: 5, 6, 7, 19, 20, 21, 29, 30.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.68	22	29.48	17	18.0	51	se.	7	81	73	80	58	785
Long Branch.....	30.70	22	29.45	17	13.2	52	w.	1	72	54	66	50	860
Trenton.....	30.67	22	29.46	17	10.3	32	nw.	1	72	58	63	59	842

COMPARATIVE DATA FOR MARCH.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	30.4	66	2	1.10				
1886.....	37.7	70	9	3.70				
1887.....	37.7	61	8	3.34		10		
1888.....	32.8	72	0	5.71		11		
1889.....	40.5	67	19	3.79		8		
1890.....	37.6	78	0	6.08		14		
1891.....	37.2	68	4	5.06		8		
1892.....	34.4	64	6	4.75		9	10	12
1893.....	37.0	68	6	3.73		10	10	10
1894.....	44.2	83	12	1.77		10	12	11
1895.....	36.7	72	7	3.16	4.0	10	12	8
1896.....	34.0	69	-8	5.34	13.2	11	13	8
1897.....	40.0	77	18	2.75	1.6	10	11	9
1898.....	45.1	77	16	3.33	3.0	12	9	10
1899.....	38.6	73	13	6.54	5.4	13	7	10
1900.....	35.6	67	-9	3.51	7.0	10	12	7
1901.....	39.2	75	-8	4.64	0.9	12	9	10
1902.....	43.9	77	0	4.34	5.7	11	12	9
1903.....	47.6	79	13	5.13	T.	10	11	8
1904.....	37.2	72	1	3.43	4.5	13	11	8
1905.....	39.8	87	7	3.95	2.6	12	14	8
1906.....	34.4	62	-15	5.09	11.2	11	10	9
1907.....	41.2	88	-11	3.04	11.5	10	13	10
1908.....	41.8	89	7	2.80	3.5	12	11	9
1909.....	38.3	74	-6	3.48	4.6	13	12	10
1910.....	44.5	88	10	1.22	1.1	6	14	10
1911.....	37.6	76	3	3.38	5.3	11	10	12
1912.....	36.9	72	3	7.61	6.6	14	9	11
1913.....	44.8	79	1	5.15	0.1	12	10	9
1914.....	35.4	75	-6	3.65	20.5	10	13	10
1915.....	36.1	63	11	1.13	7.4	3	20	7
1916.....	31.7	71	-7	3.48	19.3	12	13	8
1917.....	38.2	72	0	4.65	9.8	13	12	14
1918.....	41.8	82	8	2.06	0.7	9	17	7
1919.....	43.2	77	12	5.32	1.6	13	14	10
1920.....	39.4	79	-8	3.80	5.6	10	17	5
1921.....	49.1	92	11	3.03	T.	11	14	10
1922.....	41.1	82	2	4.52	3.7	13	12	6
1923.....	38.0	81	-3	4.09	6.3	10	17	6
1924.....	38.8	76	5	2.51	2.7	8	16	6
1925.....	43.3	80	1	3.47	0.3	9	16	6
1926.....	35.1	79	0	2.25	0.4	7	16	9
1927.....	41.9	81	9	1.46	0.3	10	14	7
1928.....	38.3	82	6	2.84	4.9	10	14	8
1929.....	44.9	81	5	3.07	0.7	11	15	6
1930.....	40.0	78	9	2.54	0.1	7	16	7
1931.....	39.2	64	12	4.14	2.0	10	8	9
1932.....	36.6	69	3	5.49	2.5	9	14	6
1933.....	38.2	70	8	4.94	1.7	13	10	7
1934.....	36.5	77	-7	3.31	9.6	12	13	7
1935.....	43.0	81	-6	2.46	1.5	10	13	5
1936.....	45.3	78	-1	5.28	1.4	13	10	9
1937.....	35.8	66	7	2.75	4.3	10	14	6
1938.....	43.2	85	-1	2.15	1.6	11	12	7
1939.....	40.1	83	2	4.83	2.0	13	12	7
1940.....	34.7	72	8	5.14	3.8	12	10	9
1941.....	34.5	63	3	2.78	14.6	8	16	6
1942.....	42.2	72	16	5.73	1.7	12	10	8
1943.....	39.4	85	-10	3.03	6.5	10	13	7
1944.....	37.1	74	2	5.70	6.3	12	10	11
Period....	39.2	92	-15	3.77	4.5	12	13	8

Climatological Data for March 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	71	39.6	+1.0	62	26	20	5	5.32	+1.72	1.87	12-13	4.9	15	6	13	12	w.	U. S. Weather Bureau.
Barnegat City	Ocean	36	5	38.9	.....	57	17	18	2	3.35	.....	0.82	12-13	.....	13	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain	Cape May	49	50	38.9	-2.5	74	16	6	6	5.92	+2.16	2.25	12-13	5.2	15	11	10	10	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	3	.....	.....	.....	.....	.....	.....	5.82	.....	1.81	12-13	.....	13	.....	.....	.....	.....	City Water Dept.
Belvidere	Warren	289	52	36.2	-2.3	67	25	14	11	5.43	+1.74	1.19	12-13	6.2	11	12	8	11	.....	Miss C. S. Hixson.
Berlin	Camden	70	3	.....	.....	.....	.....	.....	.....	4.55	.....	1.95	12-13	7.0	9	12	12	7	.....	Samuel H. McCulley.
Boonton	Morris	280	54	34.4	-1.5	66	25	12	6	6.07	+2.43	1.62	6-7	.....	11	12	9	10	nw.	John Kline.
Bridgeton	Cumberland	30	61	40.5	-1.9	71	16	15	6	5.91	+2.07	1.74	12-13	5.3	12	12	9	10	nw.	Bennett K. Matlack.
Brooklawn	Camden	30	3	.....	.....	.....	.....	.....	.....	5.29	.....	1.79	12-13	6.8	8	.....	.....	.....	.....	C. D. Scott.
Burlington	Burlington	12	58	38.8	-3.5	69	25	14	6	5.97	+2.26	1.92	12-13	8.6	14	10	10	11	se.	Public Service E. & G. Co.
Canoe Brook	Essex	180	14	35.6	-1.4	70	25	7	6	6.62	+1.06	1.85	12-13	.....	13	10	10	11	nw.	N. J. Water Policy Comm.
Cape May	Cape May	17	56	40.0	-0.8	61	26	22	5	3.69	-0.10	1.29	12-13	.....	16	7	10	14	nw.	Naval Air Station.
Charlotteburg	Passaic	760	52	34.0	-2.3	64	26	3	11	5.20	+1.21	1.24	12-13	3.5	9	7	6	18	w	Newark Water Dept.
Chatham	Morris	185	40	.....	.....	.....	.....	.....	.....	6.20	+2.16	1.75	12-13	6.0	14	14	8	9	.....	Edward P. Molitor.
Chatsworth	Burlington	90	4	37.6	.....	68	25	2	6	6.60	.....	1.98	12-13	.....	11	10	16	5	nw.	Alfred L. Stevenson.
Clayton	Gloucester	120	31	40.4	-1.4	70	16	13	6	4.91	+1.39	1.82	12-13	7.1	7	7	10	14	n.	Worthy Hitt.
Clinton	Hunterdon	300	1	.....	.....	.....	.....	.....	.....	5.26	.....	1.38	12-13	6.0	10	12	9	10	nw.	L. W. Klockner.
Culvers Lake	Sussex	760	43	.....	.....	.....	.....	.....	.....	4.60	+1.28	1.00	7	6.0	8	.....	.....	.....	.....	L. S. Depue.
Dover	Morris	600	60	34.4	-1.6	65	24	10	11	6.39	+2.37	1.82	6-7	5.0	11	6	9	16	.....	William C. Harris.
Egg Harbor City	Atlantic	63	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chas. E. Hall.
Elizabeth	Union	34	65	38.0	-1.4	66	25	14	6	7.28	+3.32	2.25	12-13	3.3	9	15	6	10	ne.	Union County Park Comm.
Flemington	Hunterdon	140	58	38.4	-2.2	68	25	13	6	5.72	+2.06	1.40	7	5.5	10	12	9	10	n.	Hiram E. Deats.
Freehold	Monmouth	194	40	38.0	-1.0	67	25	14	6	5.94	+1.46	2.20	12-13	6.9	12	13	8	10	w.	Moreau Plant Co.
Hammonton	Atlantic	95	38	39.8	-1.7	72	16	11	6	6.26	+2.34	1.75	12-13	7.0	12	12	9	10	sw.	J. G. Wilson.
Hightstown	Mercer	110	51	38.0	-2.6	67	25	13	6	6.13	+2.35	2.33	12-13	5.9	11	7	15	9	nw.	James R. Pickering.
Indian Mills	Burlington	100	55	38.4	-2.7	67	25	8	6	6.35	+2.27	1.72	12-13	10.8	14	7	15	9	w.	Edward Entwistle.
Jersey City	Hudson	81	46	37.1	-2.8	67	25	14	19	6.35	+2.33	2.05	12-13	.....	12	8	12	11	nw.	J. C. Water Dept.
Lakewood	Ocean	54	40	38.4	-1.9	65	17	10	6	5.78	+1.61	1.85	12-13	8.0	12	7	9	15	nw.	R. W. Holman.
Lambertville	Hunterdon	75	57	37.8	-1.4	68	25	11	6	5.68	+1.89	1.75	12-13	7.6	9	12	8	11	sw.	Mabel Wollaston.
Layton	Sussex	480	43	32.4	-3.4	64	25	4	22	2.75	-0.54	0.90	19-20	8.7	10	6	6	19	ne.	A. M. Depue.
Little Falls	Passaic	157	41	35.8	-3.1	65	25	12	5	5.85	+2.08	1.62	12-13	5.0	12	8	12	11	aw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	36	37.0	-2.3	61	25	16	2	6.17	+2.00	2.00	12-13	6.0	14	5	13	13	w.	Storm Warn. Display Sta.
Long Valley	Morris	660	14	33.1	-2.0	65	25	7	11	6.34	+2.47	1.65	23-24	6.0	13	15	7	9	nw.	Arthur Barkman.
Marlton	Burlington	90	3	.....	.....	.....	.....	.....	.....	5.86	.....	1.84	12-13	9.5	13	11	9	11	nw.	David Griscom.
Millville	Cumberland	60	4	.....	.....	.....	.....	.....	.....	6.15	.....	2.01	12-13	.....	15	11	12	8	.....	Paul Ritchie.
Moorestown	Burlington	62	81	38.6	-1.3	67	25	14	6	5.13	+1.45	1.62	12-13	10.9	13	7	12	12	nw.	Japanese Beetle Laboratory
Morris Plains	Morris	500	3	.....	.....	.....	.....	.....	.....	6.50	.....	1.73	6-7	4.8	8	14	4	13	.....	James C. Long.
Newark	Essex	10	90	36.7	-2.7	63	25	15	2	6.45	+2.70	2.26	12-13	4.9	12	4	10	17	ne.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	90	38.0	-1.2	68	26	15	11	5.70	+2.14	2.15	12-13	5.8	11	14	7	10	nw.	N. J. Experiment Station.
New Milford	Bergen	12	26	.....	.....	.....	.....	.....	.....	5.62	+1.95	1.37	12-13	.....	14	.....	.....	.....	.....	Hackensack Water Co.
Newton	Sussex	769	61	33.0	-3.0	64	25	10	2	4.05	+0.66	0.90	7	5.0	10	12	8	11	ne.	Irving J. Kern.
Orange	Essex	140	4	.....	.....	.....	.....	.....	.....	6.82	.....	2.03	12-13	.....	7	.....	.....	.....	.....	County Engineer.
Paterson	Passaic	95	73	34.5	-2.6	67	25	13	2	5.60	+1.65	1.64	12-13	4.5	12	7	12	12	n.	J. W. Cook.
Pemberton	Burlington	55	15	39.8	-1.7	65	25	9	6	5.58	+2.10	1.84	12-13	7.5	13	11	7	13	w.	Charles S. Beckwith.
Phillipsburg	Warren	182	56	34.9	-3.6	66	25	14	27	5.08	+1.74	1.22	12-13	7.0	14	13	6	12	.....	Town Engineer.
Plainsboro	Union	120	56	37.4	-1.7	68	25	16	2	6.16	+2.20	2.00	12-13	5.6	10	5	12	14	nw.	S. K. Pearson.
Plainsboro	Middlesex	110	3	.....	.....	.....	.....	.....	.....	5.55	.....	2.00	12-13	7.0	8	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville	Atlantic	8	46	38.6	-1.8	65	25	6	6	5.73	+2.32	2.52	12-13	.....	15	14	8	9	s.	N. J. Water Policy Comm.
Rahway	Union	20	5	.....	.....	.....	.....	.....	.....	6.11	.....	2.26	12-13	.....	12	1	15	15	ne.	Louis Fontenelli.
Ridgefield	Bergen	80	27	36.0	-2.5	67	25	13	6	7.47	+3.40	2.16	12-13	7.0	12	5	16	10	nw.	George P. Kirsten.
Runyon	Middlesex	18	21	34.8	-4.6	60	26	6	6	5.89	+2.57	2.12	12-13	.....	11	12	10	9	w.	N. J. Water Policy Comm.
Sandy Hook	Monmouth	15	46	36.6	-2.7	58	26	17	2	5.32	+1.28	2.08	12-13	8.0	13	7	10	14	w.	U. S. Coast Guard.
Somerville	Somerset	385	61	36.8	-2.0	69	25	11	2	5.70	+2.03	1.35	7	9.4	10	8	9	14	n.	Norbert Larky.
Sussex	Sussex	450	49	34.2	-2.6	64	25	9	11	3.93	+0.78	1.00	6-7	6.2	9	6	7	18	e.	Marshall Hunt.
Toms River	Ocean	33	23	.....	.....	.....	.....	.....	.....	6.42	+2.02	2.25	12-13	5.0	9	.....	.....	.....	.....	Robt. F. Snyder.
Trenton	Mercer	56	72	38.0	-1.1	67	25	19	2	5.66	+2.26	2.20	12-13	4.9	13	5	13	13	n.	U. S. Weather Bureau.
Trenton No. 2	do.	105	14	38.4	.....	68	25	16	6	6.43	.....	2.11	12-13	9.0	14	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton	Ocean	23	51	39.8	-1.4	65	26	12	6	5.36	+1.23	2.19	12-13	6.0	13	10	9	12	nw.	John H. Brown.
Vineland	Cumberland	110	64	.....	.....	.....	.....	.....	.....	5.82	+2.28	1.70	12-13	.....	13	12	10	9	nw.	Robert Jones.
Westfield	Union	145	5	.....	.....	.....	.....	.....	.....	6.05	.....	2.08	12-13	5.0	10	15	6	10	sw.	Town Engineer.
Woodcliff Lake	Bergen	103	26	.....	.....	.....	.....	.....	.....	5.99	+2.44	1.52	12-13	.....	14	.....	.....	.....	.....	Hackensack Water Co.
Woodstown	Salem	16	9	.....	.....	.....	.....	.....	.....	5.65	.....	1.65	12-13	.....	8	12	9	10	w.	Geo. S. Keen.
New York, N. Y.	.....	10	.....	37.0	-0.7	60	25	15	5	6.62	+2.98	2.49	12-13	4.7	12	5	12	14	n.	U. S. Weather Bureau.
Philadelphia, Pa.	.....	10	74	38.5	-0.6	66	25	17	6	5.46	+2.07	1.69	12-13	7.8	15	5	11	15	n.	U. S. Weather Bureau.
For the State	.....	.....	.....	37.1	-2.1	74	16	2	6	5.70	+1.93	2.52	12-13	6.3	12	10	10	11	nw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. †Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also.

§Length of precipitation record; temperature record is much shorter.

*Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia, Pa.,—4-24-44-925.

Daily Precipitation for March 1944

Stations	Drainage Basin	Day of month																														Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
Atlantic City ^{1†}	Coast				.33	.20	.01	.92					.19	1.68				.18	.08	.40	.75			.27				.12		.15	.01	.03	5.32	
Barnegat City ⁴	do.				.28		.40	.21	T.				.09	.73			T.	.29	.04	.27	.29			.34				.07		.31	.03	T.	3.35	
Relleplain	Tuckahoe	.05			.05	.40		1.17						2.25				T.	.27	.02	.45	.10		.40	.14			.30	.05	.22	.05	5.92		
Belmar ²	Coast				.27		.10	1.10					.21	1.60				.15	.04	.23	.29			.52				.15		.88	.28		5.82	
Belvidere	Delaware				.05			.92			T.			1.19			.01	.87		.97				.60	.19			.10		.11	.42		5.43	
Berlin	Mullica				.40			.50			T.			1.95				.30	.20	*	.30							.20		.70	T.		4.55	
Boonton ³	Passaic							1.35	.27			T.		1.28	T.			.09	.24	.48	.10		T.	1.24				.20		.35		.66	.01	6.07
Bridgeton	Delaware				.13	.36		1.30						1.74				.34	.12	.12	.55			.39				.23		.10	.53	T.	5.91	
Brooklawn	do.				.41	T.		1.09						1.79			T.	.17		T.	.53			.40	.19					T.	.71		5.29	
Burlington	Delaware				.10	.60		1.13						1.92				.14	.40	*	.13	.03		.53	.20			.08		.03	.68		5.97	
Canoe Brook ³	Passaic	.07						1.16	.16					1.85				.21	.20		.71	.24		.04	1.00				.16		.80	.02	6.62	
Cape May ^{2†}	Coast				.17	.13		.65	.25				.46	.83				.22	.09	.23	.25	.01		.23				.22		.13	.02	.02	3.69	
Charlotteburg	Passaic							1.10						1.24				.43			.65	.11		.62	.32			.23			T.	.50	5.20	
Chatham ³	do.	.12						1.05	.22					1.65	.10			.17	.20		.52	.18		.05	.97				.24		.59	.14	6.20	
Chatsworth	Coast				.23	.41		1.24						1.98				.25			.89	.05		.55	.18				.12		.70		6.60	
Clayton	Delaware					.52		1.25						1.82					.22					.50					.48		.12		4.91	
Clinton	Raritan				.14			1.05						1.38				.35		T.	.82			.58	.20			.19		.13	.42		5.26	
Culvers Lake	do.							1.00						.88			.01	.63		.77	T.		.78	.06						T.	.47		4.60	
Dover	Passaic						*	1.82						1.30				.42		*	.50	.23		1.26				.30		.30	.26		6.39	
Egg Harbor City ²	Mullica							1.50	T.		T.			2.25				.36	T.		1.08	.01		.62	.26			.16		.02	1.02		7.28	
Elizabeth	Coast	T.			T.	T.		1.40			T.			1.38				.42	T.		.76	T.		.59	.24				.36		.07	.38		5.72
Flemington	Raritan				.12			.62	T.					2.20				.18	.04		.78			.50	.21				.09		.09	.93	T.	5.94
Freehold	do.				.24	.06								1.75				.41	.04	*	.11			1.02	.24			.18		.21	.67		6.26	
Hammononton	Mullica				.06	.36		1.21						1.72				.13	.02		.62			.52	.19			.15		.08	.77		6.13	
Hightstown	Raritan					.21		1.11			T.			2.33		T.	T.	.19	.07	.02	.76	.04		.41	.17			.15		.21	.64	T.	6.35	
Indian Mills	Mullica				*	.72		1.25			T.			1.72				.19	.07	.02	.45			.51				.75		.46	.34		6.35	
Jersey City ²	Coast						.02	1.32					.07	1.98			.15	.10		.20	.76			.61				.15		.21	.64	T.	6.35	
Lakewood	Metedeconk				.20	.12		1.05			T.			1.85		T.		.08	.10		.80	.05		.50				.18		.10	.75	T.	5.78	
Lambertville	Delaware				.35	T.		1.15	T.					1.75				.28	T.		.80	T.		T.	.65				.10		.10	.50		5.68
Layton	do.				T.			.20						.71				.48			.90	.02		.23	.03				.11		.05	.02	2.75	
Little Falls ³	Passaic	.03						1.06	.02					1.62				.12	.21		.65	.19		.05	.92					.24		.73	.01	5.85
Long Branch ^{2†}	Coast	T.			.28		.08	1.13		T.	T.			2.17	.90	T.	.01	.09	.03	.42	.43			.51					.13		.68	.38	T.	6.17
Long Valley ³	Raritan					.10		1.10	.11					1.40	.18			.14	.36		.40	.10			1.65				.17		.58	.05	6.34	
Marlton	Delaware				.61	T.		.84						1.84				.20	.07	.10	.66	.16		.37	.20			.07		.20	.54		5.86	
Millville ^{2†}	Maurice				.56			1.84						2.18	.80			.20	.15	.34	.23	.04		.46				.32		.54	.04	.04	6.15	
Moorestown ³	Delaware	.10				.70		.30	T.					1.62				.02	.10		.82	.19		.06	.56				.02		.63	.01	5.13	
Morris Plains	Passaic							1.73	T.	T.	T.			1.37				.35	T.		.59	.03		1.34					.30		T.	.79		6.50
Newark ¹	Coast				T.			1.15	1.24			T.		.09	2.17		T.	.19	.21		.21	.50		.77				.20		.55	.17		6.45	
New Brunswick	Raritan				.03	T.		1.23						2.15				.19	T.		.62	.07		.40	.17				.08	T.	.02	.74		5.70
New Milford ^{2†}	Hackensack	.01						1.08	.24					1.14	.23			.01	.15	.21		.57	.18		.96				.20		.59	.05	5.62	
Newton	Delaware				T.			.90			T.			.90				.18	.22		.80	.03		.62				.08		.06	.26		4.05	
Orange ^{2†}	Passaic							1.47						2.03				.36			.78	.19			1.08							.91	6.82	
Paterson ²	do.						.22	1.00						1.84	.46		.10	.26		.15	.27		1.01					.30		.42	.23	T.	5.60	
Pemberton	Delaware				.19	.16		1.02			T.			1.84				.11	T.		.15	.65	.08		.50				.11		.01	.72	.04	5.58
Phillipsburg	do.	T.		T.	.17			1.24			T.			1.10				.12	.48		.18	.65	.08		.70				.04		.24	.14		5.08
Plainfield	Raritan				.01			1.30	T.	T.	T.			2.00			T.	T.	.24		*	.93	T.		.93				.09		.10	.56		6.16
Plainsboro	do.					1.43		.20						2.00				.12			.38	T.		.42	.23				.12			.85		5.55
Pleasantville ³	Coast	.01				.40		.80	.30					2.45	.07			.12		.18	.02	.40	.13		.02	.39				.26		.24	.06	5.73
Rahway ^{2†}	Rahway				T.			1.01	.25					.09	2.17	T.	T.	.12	.16		.20	.44			.70				.10		.55	.23		6.11
Ridgefield	Hackensack						T.	1.63			T.			.03	2.13		.01	.01	.55		1.00			.92				.27	T.	.12	.70	T.	7.47	
Rumyon	Coast				.06			1.11						2.12				.21			.51	.12		.51	.14			.11		.18	.82		5.89	
Sandy Hook ^{2†}	do.				.05			.29	.57			T.		.24	1.84		T.	.01	.07	T.	.46	.27		.42				.16		.80	.14	T.	5.32	
Somerville	Raritan				.46			1.35	T.					1.35				.33			.74	T.		.47	.24			.12		.11	.53		5.70	
Sussex	Hudson							1.00			T.			.60				.03	.59		.62													

Daily Temperatures for March 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	39	36	43	42	35	45	51	48	31	35	41	46	56	47	53	54	50	34	37	41	43	51	58	52	62	58	53	49	48	46.3	
	Minimum....	23	20	27	28	20	23	38	28	25	22	26	38	36	32	39	42	44	34	25	30	29	40	42	44	43	42	42	40	40	33	
Barnegat City†.....	Maximum...	48	36	42	41	35	41	52	49	36	34	43	48	54	48	44	51	57	53	36	40	41	47	50	56	50	56	52	44	48	46.4	
	Minimum....	27	18	23	27	20	22	36	27	28	20	20	34	34	30	38	41	39	29	25	30	29	33	37	37	38	44	42	40	39	34	
Belleplain.....	Maximum...	38	38	52	51	38	41	57	45	39	35	46	54	56	55	56	74	67	59	53	36	44	48	53	56	63	64	63	57	53	50	
	Minimum....	23	18	11	25	15	6	35	28	20	10	10	26	42	26	32	40	45	30	19	21	25	18	29	38	25	40	35	37	34	35	
Belvidere.....	Maximum...	34	36	39	38	44	43	45	40	32	32	44	50	51	55	50	52	51	50	41	22	50	47	46	55	67	60	46	48	41	42	
	Minimum....	25	15	21	19	17	17	33	25	20	17	14	24	39	27	33	35	40	37	16	19	22	18	31	35	39	39	37	37	33	31	
Boonton /.....	Maximum...	35	32	39	30	40	45	50	40	30	31	44	56	52	52	47	55	52	50	28	30	43	45	49	55	66	56	47	18	42	49	
	Minimum....	25	14	15	24	17	12	14	24	21	12	12	13	31	28	28	33	36	36	17	16	21	21	22	32	28	31	33	37	31	33	
Bridgeton.....	Maximum...	39	35	55	43	35	46	51	42	36	36	49	57	55	54	60	71	66	61	42	34	44	50	51	58	66	62	60	53	50	47	
	Minimum....	27	20	21	28	18	15	36	29	23	18	18	28	45	30	37	42	50	35	22	22	27	28	33	40	32	42	38	39	39	38	
Burlington.....	Maximum...	33	33	47	45	35	39	44	42	37	31	45	50	54	55	62	66	63	56	41	30	46	45	54	54	69	65	60	50	48	48	
	Minimum....	22	18	21	21	22	14	35	24	20	22	20	25	44	30	37	40	30	37	21	20	27	26	32	40	31	43	39	39	36	34	
Canoe Brook /.....	Maximum...	40	36	43	35	43	46	47	50	37	37	50	59	56	55	45	57	58	56	31	30	49	46	46	60	70	62	48	54	43	51	
	Minimum....	25	14	16	26	17	7	14	23	21	13	8	16	31	28	32	33	38	32	17	19	22	10	20	33	23	34	28	37	28	34	
Cape May*.....	Maximum...	37	33	43	42	34	44	49	41	32	44	42	46	53	46	45	58	53	50	37	38	42	46	51	55	50	61	56	51	48	45.9	
	Minimum....	26	23	29	30	22	27	38	31	27	28	27	37	37	37	37	42	52	35	25	32	29	29	40	42	42	44	42	42	40	33	
Charlotteburg.....	Maximum...	32	28	35	36	36	43	47	44	35	30	43	52	50	48	49	56	54	50	46	32	40	42	45	50	62	64	53	44	45	36	
	Minimum....	22	10	18	20	12	7	32	22	18	13	3	17	34	35	31	33	35	35	11	18	23	15	25	38	21	39	28	36	22	32	
Chatsworth.....	Maximum...	37	36	49	44	35	43	55	43	36	34	50	54	55	54	55	68	64	62	60	33	43	43	51	55	68	61	54	52	49	43	
	Minimum....	24	17	10	32	15	2	35	25	22	8	8	22	44	27	32	39	41	29	19	22	21	20	27	27	23	38	43	38	32	26	
Clayton.....	Maximum...	38	35	52	49	42	45	54	44	41	36	57	56	54	54	60	70	70	60	45	46	42	48	54	56	65	66	58	55	62	49	
	Minimum....	20	26	20	30	16	19	35	30	22	19	18	27	45	29	37	38	44	20	26	26	25	32	40	30	37	39	38	39	31	32	
Dover.....	Maximum...	33	31	38	36	39	41	46	40	32	32	43	53	57	50	44	55	58	50	31	32	43	41	48	65	63	56	44	47	39	38	
	Minimum....	12	12	19	20	16	13	32	26	19	16	10	22	32	25	33	34	38	26	15	18	23	16	31	33	26	39	32	33	30	32	
Elizabeth.....	Maximum...	40	35	38	37	45	44	50	45	37	35	46	55	56	54	50	57	52	55	47	30	47	43	49	59	66	63	56	54	47	40	
	Minimum....	25	15	21	25	18	14	35	24	23	15	15	24	43	29	36	37	40	34	18	21	26	26	32	36	29	37	37	37	35	28	
Flemington.....	Maximum...	40	38	45	43	45	46	46	44	35	35	43	55	54	59	57	65	58	55	45	29	49	44	48	58	68	63	58	52	48	49	
	Minimum....	26	17	21	22	18	13	33	27	22	19	15	33	40	28	35	36	39	40	18	19	26	21	30	39	29	37	37	33	35	28	
Freehold.....	Maximum...	36	34	43	38	37	42	54	54	35	34	45	56	54	57	58	62	54	59	44	31	46	43	52	55	67	60	54	51	46	40	
	Minimum....	24	15	19	22	15	14	35	29	21	17	18	29	43	26	34	37	37	35	18	21	25	20	31	39	43	36	36	35	35	29	
Hammononton.....	Maximum...	37	35	52	45	46	48	57	43	36	36	50	58	56	56	61	72	70	50	45	34	45	45	45	51	69	63	60	54	47	54	
	Minimum....	27	29	19	27	27	11	53	28	22	16	16	24	44	28	36	37	45	35	19	20	26	25	29	38	33	25	34	39	36	32	
Hightstown.....	Maximum...	38	35	43	41	40	42	53	42	34	33	45	56	54	54	56	63	56	57	42	30	45	40	52	55	67	61	54	53	46	42	
	Minimum....	26	17	21	22	18	13	34	29	23	18	16	25	43	29	35	37	38	36	19	21	26	22	30	38	32	41	36	38	34	29	
Indian Mills.....	Maximum...	37	34	51	45	35	44	56	43	34	35	48	57	54	53	60	70	65	60	40	32	43	45	54	55	67	62	53	52	44	49	
	Minimum....	26	18	12	24	16	8	36	29	22	13	11	22	44	28	37	40	42	33	20	21	26	20	30	37	28	43	37	38	34	27	
Jersey City.....	Maximum...	30	36	44	38	38	42	50	40	33	43	52	54	55	50	50	55	53	35	30	49	47	52	50	67	57	52	50	47	45	47	
	Minimum....	19	16	21	21	15	20	37	28	24	18	26	26	36	28	30	40	35	26	14	16	24	26	35	38	40	39	40	37	32	30	
Lakewood.....	Maximum...	39	36	46	42	37	41	56	45	38	34	47	54	56	53	51	62	65	59	45	32	44	43	48	53	64	60	54	50	40	50	
	Minimum....	25	17	22	25	20	10	37	30	25	18	16	23	38	30	37	40	30	38	21	25	28	20	29	40	28	41	36	36	35	30	
Lambertville.....	Maximum...	38	36	51	42	41	45	49	42	35	34	44	55	55	60	60	64	57	54	42	30	48	46	52	56	68	63	58	52	47	44	
	Minimum....	26	17	20	20	18	11	33	24	20	17	13	22	39	27	30	37	38	39	18	20	27	18	30	38	28	38	32	36	31	34	
Layton.....	Maximum...	33	30	38	34	39	42	45	42	33	33	43	47	47	49	48	46	51	51	42	27	43	43	45	52	64	64	45	46	45	38	
	Minimum....	20	9	16	21	11	7	30	22	17	7	5	18	36	23	30	30	37	33	12	16	20	4	20	33	21	36	29	20	26	31	
Little Falls /.....	Maximum...	37	33	38	42	40	46	50	42	31	33	42	53	54	52	47	54	51	60	27	33	48	45	47	47	65	58	48	48	42	49	
	Minimum....	25	15	18	26	12	12	19	29	22	18	13	22	41	28	32	35	38	39	16	20	22	17	31	37	28	37	33	38	33	34	
Loug Branch*.....	Maximum...	38	33	43	36	37	40	52	43	31	33	43	50	54	48	45	50	55	56	28	32	44	40	52	56	61	61	46	51	41	48	
	Minimum....	20	16	23	23	20	16	38	28	23	18	17	26	36	31	35	37	38	27	19	25	27	29	35	40	32	43	40	37	37	31	
Loug Valley /.....	Maximum...	35	32	40	29	38	46	47	39	29	32	43	53	51	52	48	57	55	50	28	30	45	42	47	55	65	57	44	47	39	38	
	Minimum....	21	10	15	23	13	9	35	18	17	9	7	17	37	32	32	35	33	12	15	22	10	26	32	22	31	27	27	30	24	24	
Moorestown*.....	Maximum...	36	33	48	51	35	45	52	40	30</																						

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX.

APRIL 1944.

No. 4

GENERAL SUMMARY.

April this year was somewhat colder and much wetter than normal, following closely in these respects the pattern of the preceding month of March. The first week was cold. The low reading of 6° at Layton on the 6th is only 3° above the April record for New Jersey. Warm, spring-like weather prevailed from the 7-10th, on the 20th, and again on the last two days of the month. There was much more than the usual cloudiness for April and the average number of days with measurable precipitation was 13. An unusually heavy snowstorm for the season occurred in north Jersey on the 4-5th. Falls of 8 to 10 inches were recorded over the Highlands. The amounts immediately to the south were much lighter and diminished to traces on the coast and extreme south part of the State. The average for the State, however, was the greatest April average since 1924. The cold, wet weather of March and April this year greatly delayed farm work. Vegetation developed slowly and at the end of April was generally about two weeks behind normal advancement for the season.

All months since August 1943 have been colder than normal excepting January and February this year. During the same 8-month period, precipitation as a whole was slightly greater than normal due to excessive rainfall in October, March, and April.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 44 stations, was 47.9°, which was 1.7° below normal. The highest temperature was 82° at Flemington on the 30th, and the lowest, 6°, at Layton on the 6th. The highest monthly mean temperature was 51.9° at Bridgeton, and the lowest, 43.6°, at Long Valley.

The temperature departure from the normal for the year 1944 to date, for the State, is -0.1°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 62 stations, was 5.45 inches, which was 1.80 inches above normal. The average total snowfall at 22 selected stations was 3.5 inches, which was 2.3 inches above normal. The greatest monthly precipitation was 7.37 inches at Vineland and the least, 3.16 inches at Cape May. The greatest amount of precipitation in any 24 consecutive hours was 3.30 inches at Millville on the 24th.

The average for the Highlands was 4.97 inches; for the Red Sandstone Plain, 5.48 inches; for the Southern Interior, 5.60 inches; and for the Sea Coast, 5.61 inches.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: the Highlands, +1.19 inches; Red Sandstone Plain, +3.15 inches; Southern Interior, +2.40 inches; Sea Coast, +2.07 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 5, 9, 10, 12, 15, 16, 20, 23, 24, 25.

THUNDERSTORMS: 5, 16, 21, 24.

KILLING FROST: 6, 14, 19, 20, 28, 29.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.40	22	29.37	12	16.0	42	se.	15	82	72	77	51	492
Long Branch.....	30.42	29	29.36	12	13.4	38	w.	12	76	58	66	56	517
Trenton.....	30.41	29	29.36	12	9.5	29	se.	11	73	54	61	58	482

COMPARATIVE DATA FOR APRIL.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	48.4	88	26	2.79	.....	.....	.....	.....
1886.....	50.6	86	27	3.40	.....	7	.....	.....
1887.....	47.3	87	16	2.70	.....	9	.....	.....
1888.....	47.9	92	22	3.28	.....	.....	.....	.....
1889.....	51.2	83	25	5.32	.....	12	.....	.....
1890.....	50.4	86	21	2.65	.....	8	.....	.....
1891.....	52.0	88	20	2.19	.....	8	13	11
1892.....	49.3	87	19	2.49	.....	8	9	13
1893.....	49.2	82	19	5.21	.....	11	9	10
1894.....	50.3	88	10	3.09	.....	9	12	9
1895.....	49.1	89	19	4.88	T.	10	11	7
1896.....	52.4	98	12	1.35	3.1	7	13	10
1897.....	50.4	89	19	3.79	T.	9	14	11
1898.....	47.8	81	13	3.74	2.9	11	8	11
1899.....	49.9	88	18	1.73	T.	4	16	10
1900.....	50.8	82	18	2.29	T.	6	14	9
1901.....	48.3	89	23	6.31	0	12	8	7
1902.....	50.2	93	20	3.62	0	9	10	11
1903.....	50.9	92	18	3.97	0	9	13	7
1904.....	46.7	85	16	3.42	0.1	10	9	12
1905.....	49.9	84	18	2.88	0.1	10	12	11
1906.....	51.2	87	17	3.64	T.	8	15	10
1907.....	45.2	83	19	3.78	4.8	11	11	9
1908.....	51.2	93	13	2.72	T.	11	14	9
1909.....	50.2	88	17	5.97	0.8	13	10	11
1910.....	53.5	88	20	5.34	0	12	9	11
1911.....	47.4	88	14	4.11	2.6	11	10	10
1912.....	50.4	82	18	3.56	0	14	9	10
1913.....	52.1	89	19	5.78	T.	11	14	7
1914.....	48.4	89	16	3.67	0	11	13	10
1915.....	54.4	96	20	2.71	11.5	9	14	10
1916.....	48.2	85	21	3.32	4.4	13	10	9
1917.....	48.8	88	21	2.39	4.7	9	15	8
1918.....	49.8	81	22	4.05	2.6	12	11	8
1919.....	49.3	85	15	3.06	T.	10	13	7
1920.....	48.0	85	13	4.50	T.	13	12	9
1921.....	56.3	87	20	3.57	0.4	11	13	6
1922.....	51.0	89	18	2.55	T.	10	15	7
1923.....	50.0	91	3	3.55	0.5	9	16	6
1924.....	48.0	81	18	6.15	6.6	11	15	6
1925.....	51.4	88	15	2.40	0	9	15	7
1926.....	46.4	87	14	2.05	T.	8	13	10
1927.....	47.5	93	17	2.42	0.3	9	14	7
1928.....	47.4	85	16	5.26	0.9	12	12	8
1929.....	51.1	94	25	6.43	T.	15	10	5
1930.....	47.6	79	18	2.34	T.	9	13	7
1931.....	49.8	80	20	2.85	T.	9	15	6
1932.....	48.3	82	18	2.71	0.1	7	15	7
1933.....	50.4	85	20	4.84	0.2	11	12	7
1934.....	49.4	85	21	3.89	T.	13	15	6
1935.....	48.7	91	22	2.27	0.3	10	10	8
1936.....	48.0	90	19	3.23	0.1	12	11	8
1937.....	49.3	85	16	4.64	T.	12	11	9
1938.....	53.0	94	12	2.82	2.8	9	14	8
1939.....	48.3	89	20	5.12	0.1	14	9	8
1940.....	45.5	79	15	5.62	2.2	12	9	8
1941.....	55.4	96	19	2.82	0	5	19	6
1942.....	53.1	95	18	1.39	1.6	4	15	8
1943.....	45.5	81	11	2.82	T.	11	12	9
1944.....	47.9	82	6	5.45	3.5	13	10	8
Period.....	49.6	98	3	3.65	1.2	10	12	9

Climatological Data for April 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	71	48.4	+0.6	75	30	27	6	5.79	+2.80	2.15	24	T.	15	6	8	16	s.	U. S. Weather Bureau.
Barnegat City.....	Ocean.....	36	5	48.1	.....	76	30	29	5†	4.78	.....	1.77	24	T.	10	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	50	48.9	-1.4	80	10	17	4	4.42	+0.72	1.02	15	.....	9	7	15	8	nw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	3	.....	.....	.....	.....	.....	.....	6.77	.....	1.54	15	.....	12	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	52	47.3	-2.4	80	30	18	6	4.41	+0.65	1.38	23-24	10.0	15	11	7	12	w.	Miss C. S. Hixson.
Berlin.....	Camden.....	70	3	.....	.....	.....	.....	.....	.....	3.35	.....	0.80	24	1.0	8	12	6	12	ne.	Samuel H. McConley.
Boonton.....	Morris.....	280	54	46.1	-1.9	77	30	21	4†	5.13	+1.23	1.42	24-25	.....	12	11	5	14	ne.	John Kline.
Bridgeton.....	Cumberland.....	30	61	51.9	-0.3	80	10†	25	6	5.31	+1.71	1.35	24-25	2.0	11	15	4	11	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	3	.....	.....	.....	.....	.....	.....	4.96	.....	1.06	23-24	.....	10	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	58	49.8	-2.1	75	30	24	5	5.20	+1.46	1.06	23-24	2.6	16	13	5	12	nw.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	14	46.2	-0.7	81	30	13	6	5.47	+1.64	1.74	24	.....	16	11	4	15	w.	N. J. Water Policy Comm.
Cape May.....	Cape May.....	17	56	50.0	+1.6	73	10	31	5	3.16	+0.17	1.17	24	T.	13	5	12	13	nw.	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	52	45.0	-1.7	76	30	17	4	5.40	+1.08	1.26	15-16	10.0	15	12	4	14	e.	Newark Water Dept.
Chatham.....	Morris.....	185	40	.....	.....	.....	.....	.....	.....	5.37	+1.15	1.62	24	3.0	16	10	8	12	w.	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	4	49.0	.....	79	10	18	1	4.98	.....	1.20	15	2.0	11	8	13	9	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	31	50.8	-0.1	79	10	25	1†	5.42	+1.81	1.10	23-24	0.5	10	6	11	13	n.	Worthy Hitt.
Clinton.....	Hunterdon.....	300	1	.....	.....	.....	.....	.....	.....	5.40	.....	1.96	23-24	3.0	15	14	7	9	w.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	43	.....	.....	.....	.....	.....	.....	4.29	+0.76	1.63	23-24	9.0	9	.....	.....	.....	.....	L. S. Depne.
Dover.....	Morris.....	600	60	45.8	-1.6	77	30	18	6	5.53	+1.47	1.90	23-24	8.0	14	6	9	15	.....	William C. Harris.
Egg Harbor City.....	Atlantic.....	63	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chas. E. Hall.
Elizabeth.....	Union.....	34	65	49.5	-1.4	80	30	23	4	5.85	+1.01	1.67	23-24	0.8	14	11	6	13	ne.	Union County Park Comm.
Flemington.....	Hunterdon.....	140	58	49.8	-0.4	82	30	23	4	5.10	+1.48	0.93	24-25	3.0	12	11	8	11	nw.	Hiram E. Deats.
Fort Dix, A. A. B.....	Burlington.....	120	.....	48.0	.....	76	10	25	4	6.09	.....	1.84	24	1.0	12	8	5	17	w.	A. A. B. Weather Station.
Freehold.....	Monmouth.....	194	40	47.9	-2.3	77	10†	18	6	6.40	+2.69	1.28	27-28	2.7	15	12	8	10	w.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	38	49.7	-2.3	78	10†	22	4	5.52	+1.74	1.15	24-25	1.5	11	11	9	10	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	110	51	48.1	-2.1	75	10†	23	6	5.66	+1.77	1.45	23-24	2.0	13	10	12	8	e.	James R. Pickering.
Indian Mills††, 2 mi. W.....	Burlington.....	100	55	49.0	-1.5	78	10†	18	4	4.92	+1.12	1.15	15	2.2	14	9	11	10	w.	Edward Entwistle.
Jersey City.....	Hudson.....	81	46	48.2	-1.9	76	30	26	5	5.44	+1.69	1.86	24	.....	12	9	6	15	.....	J. C. Water Dept.
Lakewood.....	Ocean.....	54	40	48.6	-1.0	78	30	21	4	7.21	+3.26	1.80	15-16	.....	11	5	10	15	nw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	57	48.2	-1.8	75	10	23	4	6.05	+2.25	2.00	23-24	.....	11	10	6	14	sw.	Mabel Wollaston.
Layton††, 3 miles NW.....	Sussex.....	480	43	43.9	-2.8	78	30	6	6	5.13	+1.64	1.17	24-25	12.6	13	12	4	14	w.	A. M. Depne.
Little Falls.....	Passaic.....	157	41	47.6	-1.8	79	30	23	4†	5.95	+1.79	1.88	15-16	4.5	18	8	10	12	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	36	47.6	-0.6	77	10†	22	6	7.30	+3.03	1.82	24	2.7	12	7	12	11	ne.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	14	43.6	-4.2	71	11†	9	6	5.57	+2.15	1.42	24-25	8.0	16	12	9	9	w.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	3	.....	.....	.....	.....	.....	.....	5.43	.....	1.10	15	1.8	12	10	11	9	sw.	David Griscom.
Millville.....	Cumberland.....	60	4	.....	.....	.....	.....	.....	.....	7.02	.....	3.30	24	.....	11	10	8	12	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	81	48.8	-1.6	75	10†	25	4	5.07	+1.42	1.56	24	2.0	12	8	10	12	nw.	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	3	.....	.....	.....	.....	.....	.....	5.15	.....	1.36	15-16	3.0	12	11	5	14	.....	James C. Long.
Newark.....	Essex.....	10	90	48.3	-1.7	80	30	36	5	4.85	+0.97	1.72	24	1.5	13	5	8	17	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	90	48.7	-0.9	76	30	23	6	5.13	+1.52	1.06	23-24	1.6	11	11	8	11	nw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	26	.....	.....	.....	.....	.....	.....	5.88	+2.16	1.53	24	.....	15	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	61	46.0	-1.8	72	30	18	6	4.83	+1.30	1.48	23-24	9.0	16	9	7	14	sw.	Irving J. Kern.
Orange††.....	Essex.....	140	4	.....	.....	.....	.....	.....	.....	5.12	.....	.....	.....	.....	15	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	73	46.2	-4.4	79	30	20	6	5.29	+1.46	1.84	24	5.0	12	8	9	13	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	15	50.2	-0.7	77	10	25	4	5.35	+2.25	1.14	15	2.0	12	11	5	14	w.	Charles S. Beckwith.
Phillipsburg.....	Warren.....	182	561	47.0	-2.4	78	30	24	4†	4.44	+1.05	1.19	23-24	3.0	14	9	9	12	nw.	Town Engineer.
Plainfield.....	Union.....	120	56	48.6	-0.8	78	30	24	4	5.70	+1.91	2.28	23-24	2.0	13	6	12	12	sw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	3	.....	.....	.....	.....	.....	.....	5.55	.....	1.38	23-24	2.9	11	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	46	48.6	0.0	78	10	19	4	5.56	+2.14	1.86	24-25	.....	13	10	11	9	s.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	5	.....	.....	.....	.....	.....	.....	4.81	.....	1.70	24	.....	10	7	9	14	ne.	Lonis Fontenelli.
Ridgefield.....	Bergen.....	80	27	47.0	-1.4	81	30	17	6	6.02	+2.57	2.10	23-24	6.0	13	10	7	13	nw.	George P. Kirsten.
Rnnyon††.....	Middlesex.....	18	21	44.6	-3.5	80	30	15	4	5.90	+2.28	1.32	23-24	.....	11	13	9	8	w.	N. J. Water Policy Comm.
Sandy Hook.....	Monmouth.....	15	46	47.0	-1.3	74	30	28	6	5.86	+2.24	2.00	23-24	T.	13	6	8	16	w.	U. S. Coast Guard.
Somerville.....	Somerset.....	385	61	47.8	-1.6	79	30	19	6	5.79	+2.13	1.69	23-24	.....	13	12	5	13	n	Norbert Larky.
Sussex.....	Sussex.....	450	49	45.8	-2.6	78	30	12	6	5.16	+1.63	1.40	5	10.5	15	8	8	14	e.	Marshall Hunt.
Toms River.....	Ocean.....	33	23	.....	.....	.....	.....	.....	.....	6.55	+2.64	1.50	23-24	.....	10	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	72	48.9	-0.9	76	30	28	5†	4.94	+2.00	1.52	23-24	2.0	13	4	8	18	nw.	U. S. Weather Bureau.
Trenton No. 2.....	do.....	105	14	49.2	.....	77	10†	25	6	5.75	.....	1.84	24	3.2	14	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	51	49.9	+0.5	79	10	25	4†	5.60	+1.83	1.38	24-25	.....	12	9	6	15	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	64	.....	.....	.....	.....	.....	.....	7.37	+3.77	2.00	24	.....	10	13	9	8	sw.	Robert Jones.
Westfield.....	Union.....	145	5	.....	.....	.....	.....	.....	.....	5.10	.....	1.64	24	2.0	12	12	4	14	ne.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	26	.....	.....	.....	.....	.....	.....	6.27	+2.47	1.88	24	.....	14	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	9	.....	.....	.....	.....	.....	.....	4.96	.....	1.30	15	.....	11	12	10	8	nw.	Geo. S. Keen.
New York, N. Y.....	.....	10	74	48.2	-1.2	74	30	27	5	5.05	+1.82	1.66	23-24	4.8	13	7	8	15	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	74	50.2	-1.9	77	30	27	5	4.69	+1.64	1.67	23-24	T.	12	5	7	18	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	47.9	-1.7	82	30	6	6	5.45	+1.80	3.30	24	3.5	13	10	8	12	w.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. †Received too late to be included in the means. T. Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also. ‡Length of precipitation record; temperature record is much shorter. *Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

W. B. O. Philadelphia, Pa., 5-27-44-925.

Daily Precipitation for April 1944

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast		.13	.05	.04	.01			T.			.60	.49			.69	.47			T.		.12	.01	.16	.15	.01		.84	.02				5.79
Barnegat City ¹	do.		T.	.21	.02							.06	.45			.71	.09					.01		.49	1.77		.97						4.78
Belleplain	Tuckahoe			.21	.21							T.	.92			1.02	.53			T.		.16			.55	.40		.42					4.42
Belmar ²	Coast		.22		.15	.31			T.			.09	.15			1.54	.87					.14	.01	.48	1.47	T.	1.44	T.					6.77
Belvidere	Delaware	.02	T.			.69			.08	.06	.07	.10	.12			.44	.43					.14	.16	.30	1.38	.11		.31					4.41
Berlin	Mullica	T.	.20			.10						.55				.20						.70		.60	.80					.20			3.35
Boonton ³	Passaic		T.	.04		.38	.07		T.	T.	T.	T.	.10	T.			1.41	.50				T.	.25	.17	.50	1.42		.02	.27				5.13
Bridgeton	Delaware		T.	.04	.14	.17						T.	.45			1.08	.56					.18	.03		.80	1.35		.51					5.31
Brooklawn	do.		.27	T.		.22						T.	.18			1.02	.60	T.				.29		.10	1.06	.63		.59	T.				4.96
Burlington	do.		.27	.02		.26			.04	.01		.02	.13			.85	.60					.15	.05	.28	1.06	.42		1.02	.02				5.20
Canoe Brook ³	Passaic		T.	.15		.25	.18		.02	T.	.04		.21	.01			1.20	.49				.03	.11	.16	.44	1.74		.06	.38				5.47
Cape May ^{2†}	Coast	T.	.09	.11	.03	T.			T.			.31	.29			.64	.22			T.	.04	.05	T.	.01	1.17	.01		.19	T.				3.16
Charlotteburg	Passaic		.03			.93			.12	.02	.11	.02	.12			.20	1.26					.06	.35	.19	1.10	.69		.20					5.40
Chatham ³	do.			.14		.34			.02	.06	.04		.19	.01			1.22	.57				.02	.08	.15	.39	1.62		.12	.40				5.37
Chatsworth	Coast			.18		.15						.32				1.20	.18					.12		.24	.90	.95		.63	.11				4.98
Clayton	Delaware			.33		.25						.52				.89	.62					.22		.10	1.10	.75		.64					5.42
Clinton	Raritan	T.	.12			.32			.07	.03		.08	.10			1.00	.51	.04				.14	.11	.32	1.96	.11		.49					5.40
Culvers Lake	do.					.66			.04		T.	T.	.23			.61						.34	T.	.26	1.63	.40		.12					4.29
Dover	Passaic		.01	.10		.10	.80		.08	.03		.10	.04			1.05	.44					.26		.34	1.90			.28					5.53
Egg Harbor City ²	Mullica											T.	.20																				
Elizabeth	Coast	T.	.23		T.	.32	.01		.08	.02		T.	.20			1.11	.72					.03	.04	.26	1.67	.56		.60					5.85
Flemington	Raritan	T.	.26			.28			.09	.03	T.	T.	.28			.84	.58					.11		.35	.74	.93		.61					5.10
Fort Dix, A.A.B. ²	Delaware	.01	.23		.02	.10		T.	T.			.18	.12		T.	1.33	.82	T.				.14	T.	.43	1.84		.87						6.09
Freehold	Raritan		.19	.04	.02	.21			.07			.25	T.			1.16	.93					.05	.04	.43	1.26	.47		1.18	.10				6.40
Hammonton	Mullica	T.	.14			.18						.27	.11			1.08	.65					.21	.08	1.08	1.15		.65	T.					5.52
Hightstown	Raritan	T.	.20			.18			.04	T.	T.	.02	.08			1.07	.68	T.				.08	T.	.53	1.45	.45		1.04	.04				5.66
Indian Mills	Mullica	T.	.18	.02	T.	.22						.07	.26			1.15	.67	T.				.12	.06	.17	.91	.48		.57	.04				4.92
Jersey City ²	Coast		.20			.60			.09	.03		.08	.06			1.10	.50					.25	T.	.20	1.86			.47					5.44
Lakewood	Metedeconk		.27			.25			T.			T.	.30			1.20	1.80					.08		.41	.90	.50		1.00	.50				7.21
Lambertville	Delaware	T.	.26	T.		.30			.10			T.	.30			.71	.62					.40		.45	2.00	.03		.88					6.05
Layton	do.		.02			1.07			.03			.09	.16			.15	.80					.19	.09	.22	1.02	1.17		.12					5.13
Little Falls ³	Passaic			.08		.59	.07		.06	.01	.01		.12	.01			1.88	.21				.02	.25	.15	.67	1.50	.01	.04	.27				5.95
Long Branch ^{2†}	Coast	T.	.30		.02	.49			.04	T.		.08	.14			1.58	.88					.09	T.	.43	1.82		1.43						7.30
Long Valley ³	Raritan		.06	.14		.60	.20			.30	.05		.15	.05			.85	.44					.16	.18	.47	1.42	.03	.47					5.57
Marlton	Delaware	.03	.22	T.	T.	.24						T.	.25			1.10	.63					.31	.07	.14	1.07	.65		.72	T.				5.43
Millville ^{2†}	Maurice		.22		.14	.08						.34	.58			1.15	.48					.20		.03	3.30		.50						7.02
Moorestown ³	Delaware			.26		.27			T.			.16	T.			1.32	.14	T.				.10	.16	.12	.20	1.56		.06	.72				5.07
Morris Plains	Passaic	T.	.15			.31			.01		T.	T.	.13			.57	1.36					.04	.18	.22	.90	.96	T.	.32					5.15
Newark ¹	Coast	T.	.17			.18			.07	.01	T.	.09	.04			.91	.60					.16	.01	.38	1.72	T.	T.	.51	T.				4.85
New Brunswick	Raritan	T.	.20	T.	T.	.13			.05	T.	T.	.14	.14			.80	.59	T.				.08	T.	.38	1.06	.89	T.	.81	T.				5.13
New Milford ^{2†}	Hackensack			.10		.86	.32			.11	.02		.15	.01			1.24	.44					.43	.02	.41	1.53		.01	.23				5.88
Newton	Delaware	T.	T.			.55			.10	.03	.10	.07	*			.47	.47					.32	.03	.48	1.48	.38	.02	.20	.01				4.83
Orange ^{2†}	Passaic			.17		.40				.04			.14				1.63					.18	*	*	2.20			.36					5.12
Paterson ²	do.	T.	.10			.46			.09	.02	T.	.05	.07			1.31	.50					.27	T.	.34	1.84			.24					5.29
Pemberton	Delaware	T.	.23	.02		.21	T.		T.		T.	T.	.27			1.14	.69					.17		.28	1.10	.51		.66	.07				5.35
Phillipsburg	do.	T.	.12		.08	.42		T.	.05	.04	.26	.10	.18			.52	.44					.38	T.	.24	1.19		.42						4.44
Plainfield	Raritan	T.	.22			.32			.07	.01	T.	.05	.15			.90	.57	T.				.16		.22	2.28	.15		.60					5.70
Plainsboro	do.		.23			.22						*	.22			.87	.58					.10	T.	.48	1.38	.58		.89					5.55
Pleasantville ³	Coast			.14		.14						.70	.16				.91	.25				.01	.10	.04	.15	.17	1.86		T.	.93			5.56
Rahway ^{2†}	Rahway			T.		.25			T.	.10	T.	.10	.08			1.07	.63					T.	T.	.04	.26	1.70		.58					4.81
Ridgefield	Hackensack	T.	.11		T.	1.00			.04	.02	T.	.08	.05			1.31	.29					.30		.12	2.10	.20		.40					6.02
Rumson	Coast		.26			.27			.04							1.27	.68					.12		.37	1.32	.57		.98	.02				5.90
Sandy Hook ^{4†}	do.	.01	.24		.04	.24		T.	.06	T.	T.	.07	.10			1.12	.53	T.				.07	T.	.43	1.91	T.	T.	1.04					5.86
Somerville	Raritan	T.	T.																														

Daily Temperatures for April 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum... 49	58	41	45	38	48	61	61	60	74	49	62	57	55	56	49	58	59	54	59	50	47	46	59	67	68	51	52	66	75	...	55.8
	Minimum... 34	41	35	33	29	27	42	46	47	47	41	42	37	40	43	42	43	37	42	41	44	43	46	59	67	48	45	41	41	48	...	41.1
Barneget City†.....	Maximum... 47	57	41	42	40	48	67	72	54	71	49	60	60	64	53	46	58	58	56	58	50	50	58	65	68	52	54	64	76	...	56.3	
	Minimum... 31	40	34	34	29	29	38	44	44	43	40	40	38	35	39	40	41	39	41	41	43	42	44	44	46	45	40	41	49	...	39.9	
Belleplaiu.....	Maximum... 53	69	49	50	43	48	66	74	79	80	60	65	63	67	60	59	60	59	60	69	59	54	48	65	67	70	64	60	68	75	...	62.1
	Minimum... 20	39	33	17	24	23	34	47	41	52	37	39	34	26	44	39	35	30	31	28	45	39	41	41	47	47	35	36	30	38	...	35.7
Belvidere.....	Maximum... 53	53	49	46	39	46	65	67	70	71	51	51	57	55	51	50	57	63	68	74	62	57	54	48	65	65	52	63	74	80	...	58.5
	Minimum... 28	34	29	25	25	18	31	46	40	46	35	41	33	28	35	36	39	36	31	34	46	42	40	40	45	46	47	35	34	39	...	36.1
Boonton/......	Maximum... 53	54	47	43	35	45	63	66	64	71	55	54	56	61	44	51	57	62	65	71	50	58	45	48	63	63	53	61	72	77	...	56.9
	Minimum... 24	28	30	21	25	21	27	40	41	44	31	39	36	29	34	35	38	39	30	34	41	41	39	42	42	45	41	39	42	...	35.3	
Bridgeton.....	Maximum... 56	71	63	49	43	50	70	78	82	80	60	70	63	68	63	57	58	64	63	73	60	57	51	61	67	72	69	60	69	80	...	64.4
	Minimum... 27	40	33	26	27	25	35	47	48	52	40	42	37	34	41	43	37	38	35	47	42	41	43	50	42	47	40	39	40	...	39.4	
Burlington.....	Maximum... 58	49	47	46	43	48	63	72	70	70	68	63	60	65	65	64	56	65	62	72	69	56	55	50	64	66	66	62	70	75	...	61.0
	Minimum... 27	40	31	26	24	27	35	35	44	47	40	40	37	32	40	39	39	40	48	47	35	42	42	41	45	46	47	40	40	...	38.6	
Cause Brook /.....	Maximum... 58	56	50	29	38	50	69	66	66	80	59	58	67	48	48	60	67	67	74	50	62	48	49	66	69	48	67	77	81	...	59.5	
	Minimum... 22	30	29	17	27	13	29	46	33	41	27	36	33	23	39	34	34	34	26	29	43	40	40	39	42	37	43	38	27	31	...	32.8
Cape May*.....	Maximum... 48	58	43	45	49	47	64	72	59	73	51	58	56	64	60	57	54	57	56	58	55	48	48	57	64	63	52	58	65	72	...	57.0
	Minimum... 44	40	33	35	31	32	41	47	46	49	43	44	41	43	45	43	44	42	43	47	45	44	47	50	50	48	43	41	46	...	43.0	
Charlotteburg.....	Maximum... 50	50	45	43	40	43	62	62	64	72	65	52	44	60	59	46	54	61	67	69	72	55	54	47	60	62	60	59	70	76	...	57.4
	Minimum... 24	36	27	17	25	18	32	40	33	42	30	37	30	25	32	32	35	35	23	27	42	32	36	36	40	40	40	38	33	41	...	32.6
Chatsworth.....	Maximum... 53	65	45	44	41	48	68	75	70	79	70	72	56	66	63	55	57	60	63	71	63	54	50	61	65	66	66	61	68	77	...	61.7
	Minimum... 18	40	31	25	25	23	32	44	63	44	35	39	34	24	40	39	40	35	28	28	42	41	41	40	46	43	45	37	30	35	...	36.2
Clayton.....	Maximum... 55	54	63	52	46	47	67	65	77	79	68	67	74	67	64	51	59	60	65	71	66	55	55	58	66	69	67	61	66	76	...	62.8
	Minimum... 25	38	32	25	25	26	36	48	47	51	38	41	37	32	40	45	44	35	35	35	47	42	40	43	49	44	39	42	39	...	38.9	
Dover.....	Maximum... 50	52	46	41	34	44	63	65	61	73	52	50	55	61	50	49	55	61	66	69	54	58	46	45	60	63	50	61	71	77	...	56.1
	Minimum... 27	38	27	21	24	18	34	45	50	44	31	37	33	28	33	35	37	35	29	39	40	40	38	38	45	44	35	35	42	...	35.5	
Elizabeth.....	Maximum... 56	57	50	47	40	50	67	71	67	76	67	57	59	65	61	52	59	63	66	70	61	58	52	47	68	69	64	69	76	80	...	61.5
	Minimum... 24	31	32	23	29	25	31	46	59	58	39	40	35	28	37	34	40	35	31	35	43	42	42	40	45	41	47	41	34	39	...	37.5
Flemington.....	Maximum... 53	53	51	50	43	52	68	72	73	73	69	61	67	63	52	59	64	68	74	70	58	56	47	67	70	65	65	77	82	...	62.8	
	Minimum... 27	33	30	23	27	24	32	45	40	44	33	40	35	29	36	36	39	35	32	34	46	42	41	40	46	47	47	40	42	...	36.8	
Fort Dix, A. A. B.*.....	Maximum... 56	56	45	43	36	47	66	72	68	76	53	61	56	64	50	52	57	57	61	70	51	57	45	55	64	65	50	60	68	75	...	57.9
	Minimum... 27	39	29	25	26	26	35	46	44	45	36	40	36	32	39	39	40	36	37	41	42	40	40	42	46	47	46	40	40	...	38.2	
Freehold.....	Maximum... 54	55	47	45	40	48	67	72	69	77	67	60	61	64	56	49	57	60	64	63	54	55	48	48	65	66	65	60	71	77	...	59.5
	Minimum... 27	39	30	24	25	18	34	44	46	44	37	38	33	29	39	37	39	33	34	37	43	40	39	39	44	43	44	37	33	41	...	36.3
Hammonton.....	Maximum... 58	65	47	46	42	48	67	75	74	78	64	70	58	68	53	58	59	63	62	74	57	55	53	63	67	69	66	70	78	...	62.3	
	Minimum... 23	40	32	22	26	23	36	45	45	47	38	42	35	30	41	40	45	34	32	32	37	38	42	42	49	42	46	37	35	38	...	37.1
Hightstown.....	Maximum... 55	55	47	45	36	47	66	70	65	75	61	61	57	63	58	51	58	59	63	70	56	57	49	50	65	65	60	62	70	75	...	59.0
	Minimum... 27	39	31	24	27	23	36	45	43	43	37	39	34	29	38	38	40	34	34	38	44	42	40	40	45	43	46	37	36	43	...	37.2
Indian Mills.....	Maximum... 56	62	46	44	40	48	67	74	73	78	61	66	57	67	59	55	58	60	62	74	57	55	48	63	65	68	59	61	69	78	...	61.0
	Minimum... 22	39	31	18	26	22	35	47	45	50	37	41	36	28	41	40	41	33	32	32	46	42	42	42	42	47	47	38	34	44	...	37.4
Jersey City.....	Maximum... 47	50	46	47	40	46	63	68	63	75	58	50	54	64	50	55	54	60	64	64	53	55	49	52	61	64	55	58	70	76	...	56.9
	Minimum... 36	35	30	30	26	30	39	47	47	45	38	35	38	32	35	38	39	42	44	44	39	42	39	40	46	48	49	40	46	55	...	39.6
Lakewood.....	Maximum... 55	60	46	40	36	50	65	70	65	72	62	60	59	63	58	50	56	65	65	68	56	57	48	55	68	66	58	62	72	78	...	59.5
	Minimum... 24	41	32	21	26	24	35	45	43	44	39	42	35	28	40	38	39	34	34	38	45	42	41	41	55	43	45	39	39	43	...	37.8
Lambertville.....	Maximum... 54	52	48	45	42	49	67	73	70	75	61	61	60	65	59	54	59	62	65	73	53	60	48	48	65	66	55	63	72	73	...	59.9
	Minimum... 25	35	30	23	27	24	32	46	40	43	33	40	34	29	36	36	39	36	34	36	43	42	42	46	46	45	46	36	34	38	...	36.5
Layton.....	Maximum... 49	49	43	41	37	45	62	65	69	73	64	43	55	60	58	47	56	62	72	71	67	55	52	45	61	58	54	61	71	78	...	57.4
	Minimum... 17	29	21	18	14	6	28	38	32	44	29	35	31	21	33	33	36	35	21	23	44	38	36	43	42	40	32	27	31	...	30.4	
Little Falls /.....	Maximum... 61	53	48	42	37	54	66	68	62	73	54	54	57	63	54	49	56	63	67	72	49	59	45	52	65	65	53	62	70	79	...	58.6
	Minimum... 29	34	30	23	27	23	36	45	40	44	33	30	37	31	39	35	39	35	31	36	44	41	42	39	43	45	45	40	36	39	...	36.7
Long Branch*.....	Maximum... 49	57	45	40	38	48	67	71	58	77	44																					

1.05
1.03

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX.

MAY 1944.

No. 5

GENERAL SUMMARY.

May, this year, was unusually warm. The average temperature for the State, 65.3° equaled the record for May. The only other May when this high an average was reached in New Jersey was in 1896. It was almost continuously warmer than normal. At Trenton, there were only five days below normal during the month. Unusual heat prevailed on the 22d and on the last five days with readings as high as 94° registered at three stations. It was quite cool on the mornings of the 8, 9, 19, 21, 24 and 25th, but at only a few northern stations and in the cranberry bogs was frost recorded during the month.

This was the driest May of the last five years with only 45 percent of the normal rainfall. Showers were distributed through the month. Sunshine was abundant though a period from the 23d to 28th was marked by excessive cloudiness and daily light rains. Due to heavy rainfall during the two preceding months of March and April, the lack of rain was not felt until near the close of the month, however. The month was favorable for planting of crops and farm operations of all kinds, also for crop growth. Hay crops developed rapidly and there was some cutting of early alfalfa in south Jersey before the end of the month. The dry weather continued until the 10th of June when good rains fell over much of the State. There were no destructive storms.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 43 stations, was 65.3°, which was 4.9° above normal. The highest temperature was 94° at three stations on the 22d and 31st, and the lowest, 28°, at Layton on the 19th. The highest monthly mean temperature was 68.8° at Burlington, and the lowest, 59.8°, at Barnegat City.

The temperature departure from the normal for the year 1944 to date, for the State, is +0.9°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 62 stations, was 1.67 inches, which was 2.01 inches below normal. The greatest monthly precipitation was 3.70 inches at Morris Plains, and the least, 0.55 inch at Barnegat City. The greatest amount of precipitation in any 24 consecutive hours was 1.55 inches at Morris Plains on the 12th.

The average for the Highlands was 1.88 inches; for the Red Sandstone Plain, 1.92 inches; for the Southern Interior, 1.51 inches; and for the Sea Coast, 1.26 inches.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: the Highlands, -0.41 inches; Red Sandstone Plain, +1.39 inches; Southern Interior, +0.48 inch; Sea Coast, -0.07 inch.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 10, 11, 22, 23, 24, 25, 26.

THUNDERSTORMS: 12, 13, 15, 16, 20, 27.

KILLING FROST: 19.

THE LIBRARY OF THE

MAY 29 1944

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.48	11	29.72	22	14.7	35	se.	6	85	75	83	74	139
Long Branch.....	30.46	10	29.65	22	10.2	26	s.	12	76	50	61	68	118
Trenton.	30.46	11	29.69	22	8.2	26	s.	6	76	48	56	74	54

COMPARATIVE DATA FOR MAY.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	57.3	90	29	2.74	0	.....	.....	.....	.....
1886.....	58.8	87	36	6.07	0	.....	.....	.....	.....
1887.....	63.3	94	35	1.37	0	6	.....	.....	.....
1888.....	58.6	90	26	4.92	0	16	.....	.....	.....
1889.....	62.3	94	32	4.09	0	12	.....	.....	.....
1890.....	60.7	87	33	4.24	0	12	.....	.....	.....
1891.....	59.5	93	28	2.97	0	9	11	11	11
1892.....	60.1	90	30	5.04	0	13	8	13	10
1893.....	59.4	95	29	4.07	0	10	13	8	10
1894.....	61.4	93	30	7.72	0	13	11	9	11
1895.....	60.9	102	28	2.85	0	8	12	12	7
1896.....	65.3	98	29	3.21	0	10	10	12	9
1897.....	60.6	87	29	5.68	0	12	11	12	8
1898.....	58.5	93	29	7.00	0	18	8	8	15
1899.....	61.1	94	29	1.92	0	9	12	12	7
1900.....	60.9	98	26	4.71	0	10	13	7	11
1901.....	58.6	90	29	5.60	0	16	9	9	13
1902.....	60.3	95	29	2.04	0	7	15	11	5
1903.....	62.7	98	21	0.59	0	4	16	10	5
1904.....	62.8	97	31	2.60	0	8	17	9	5
1905.....	61.4	89	22	1.71	0	8	12	11	8
1906.....	61.0	94	24	4.21	0	10	16	8	7
1907.....	55.4	91	22	5.05	0	12	12	9	10
1908.....	61.6	95	29	7.10	0	13	9	10	12
1909.....	60.0	91	27	2.30	0	9	10	11	10
1910.....	60.0	94	27	2.54	0	12	10	10	11
1911.....	64.5	99	22	1.37	0	7	14	11	6
1912.....	62.0	92	31	4.09	0	11	11	11	9
1913.....	60.3	94	25	3.45	0	9	15	7	9
1914.....	63.1	98	30	2.93	0	10	14	9	7
1915.....	58.1	88	30	3.82	0	13	13	7	11
1916.....	61.1	90	33	3.48	0	12	12	11	8
1917.....	54.0	90	25	3.83	0	11	10	10	11
1918.....	64.6	93	31	4.94	0	12	14	10	7
1919.....	60.9	95	31	4.98	0	12	14	6	11
1920.....	57.4	89	26	3.00	0	10	15	8	8
1921.....	60.2	96	32	4.17	0	10	14	7	10
1922.....	63.0	90	23	3.84	0	8	18	6	7
1923.....	59.1	90	25	1.66	0	6	20	6	5
1924.....	56.8	87	25	5.69	0	17	12	7	12
1925.....	57.7	99	23	2.86	0	8	13	11	7
1926.....	59.1	90	26	2.58	0	9	18	9	4
1927.....	58.1	88	30	3.65	0	13	9	10	12
1928.....	58.0	93	27	2.23	0	12	12	9	10
1929.....	59.9	95	26	3.49	0	13	13	8	10
1930.....	62.7	98	31	2.75	0	9	17	7	7
1931.....	60.4	97	21	3.73	0	12	14	6	11
1932.....	60.5	94	29	2.98	0	8	16	8	7
1933.....	63.2	93	32	4.84	0	13	11	8	12
1934.....	62.3	98	28	4.63	0	11	17	6	8
1935.....	57.8	95	27	1.71	0	9	15	7	9
1936.....	63.1	97	28	2.78	0	7	20	7	4
1937.....	62.5	96	28	3.12	0	10	17	9	5
1938.....	59.2	89	26	3.52	0	12	10	9	12
1939.....	63.3	99	25	1.43	0	6	16	8	7
1940.....	59.7	92	28	6.29	0	15	8	9	14
1941.....	62.6	99	23	1.86	0	9	17	9	5
1942.....	64.3	97	25	2.41	0	7	14	9	8
1943.....	61.7	93	24	4.92	0	12	11	9	11
1944.....	65.3	94	28	1.67	0	8	14	9	8
Period.....	60.4	102	21	3.68	0	11	13	9	9

Climatological Data for May 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days					Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy			
Atlantic City.....	Atlantic.....	8	71	61.2	+3.1	81	31	48	8	1.01	-2.04	0.37	20	0	7	11	12	8	s.	U. S. Weather Bureau.	
Barneget City.....	Ocean.....	36	5	59.8	.....	82	31	44	8	0.55	.....	0.21	7	0	6	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	50	64.6	+3.8	88	22	36	10	1.74	-1.78	0.83	20	0	6	17	7	7	.....	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	3	.....	.....	.....	.....	.....	.....	1.71	.....	0.56	7	0	8	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	52	67.2	+6.4	93	31	40	19	1.86	-1.68	0.58	7	0	10	13	6	12	.....	Miss C. S. Hixson.
Berlin.....	Camden.....	70	3	.....	.....	.....	.....	.....	.....	1.95*	.....	0.50	17	.....	.....	.....	.....	.....	.....	Samuel H. McCulley.
Boonton.....	Morris.....	280	54	64.1	+5.3	91	31	38	19	2.28	-1.42	0.77	15-16	0	9	15	5	11	ne.	John Kline.	
Bridgeton.....	Cumberland.....	30	61	68.4	+5.0	90	22†	42	8	1.62	-1.65	0.53	20	0	6	16	8	7	sw.	Bennett K. Matlack.	
Brooklawn.....	Camden.....	30	3	.....	.....	.....	.....	.....	.....	1.55	.....	1.10	23-24	0	4	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	58	68.8	+6.0	90	13	42	9	1.37	-2.14	0.51	13	0	5	13	11	7	sw.	Public Service E. & G. Co.	
Canoe Brook††.....	Essex.....	180	14	64.4	+5.7	92	4†	38	9	1.87	-1.48	0.58	7	0	10	17	9	5	sw.	N. J. Water Policy Comm.	
Cape May.....	Cape May.....	17	56	62.6	+3.9	84	28	50	2	1.33	-1.66	0.88	20	0	4	11	13	7	s.	Naval Air Station.	
Charlotteburg††.....	Passaic.....	760	52	63.4	+5.7	88	31	30	19	1.81	-2.07	0.53	24	0	10	14	5	12	w.	Newark Water Dept.	
Chatham.....	Morris.....	185	40	.....	.....	.....	.....	.....	.....	1.97	-1.95	0.52	7	0	10	14	10	7	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	4	67.2	.....	94	22	38	9†	1.86	.....	0.75	23-24	0	5	14	11	6	sw.	Alfred L. Stevensou.
Clayton.....	Gloucester.....	120	31	68.3	+6.7	90	31	43	8	1.21	-1.83	0.55	7	0	5	13	6	12	s.	Worthy Hitt.	
Clinton.....	Hunterdon.....	300	1	.....	.....	.....	.....	.....	.....	1.76	.....	0.64	12	0	11	16	8	7	sw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	43	.....	.....	.....	.....	.....	.....	1.91	-1.92	0.46	7	0	9	.....	.....	.....	.....	L. S. Depue.
Dover.....	Morris.....	600	60	63.3	+4.6	88	31	35	19	2.11	-1.52	0.70	23-24	0	9	10	9	12	.....	William C. Harris.
Egg Harbor City.....	Atlantic.....	63	22	.....	.....	.....	.....	.....	.....	1.97	-1.67	0.49	7	0	12	16	6	9	ne.	Chas. E. Hall.
Elizabeth.....	Union.....	34	65	67.6	+5.8	92	31	43	9	1.97	-1.67	0.49	7	0	12	16	6	9	ne.	Union County Park Comm.	
Flemington.....	Hunterdon.....	140	58	67.3	+5.9	94	31	42	9†	1.42	-2.10	0.33	7†	0	7	16	9	6	sw.	Hiram E. Deats.	
Fort Dix, A. A. B.....	Burlington.....	120	.....	65.8	.....	90	31	43	9	1.21	.....	0.35	16	0	11	11	9	11	sw.	A. A. B. Weather Station.
Freehold.....	Monmouth.....	194	40	65.4	+3.4	91	31	42	19	2.19	-1.53	0.62	7	0	9	16	9	6	s.	Moreau Plant Co.	
Hammononton.....	Atlantic.....	95	38	66.8	+3.6	93	31	41	30	1.04	-2.57	0.41	7	0	5	15	10	6	sw.	J. G. Wilson.	
Hightstown.....	Mercer.....	110	51	65.6	+4.7	89	31	42	19	1.22	-2.39	0.50	7	0	7	13	13	5	sw.	James R. Pickering.	
Indian Mills††, 2 mi. W.....	Burlington.....	100	55	67.0	+5.2	91	31	41	10	1.94	-1.40	0.83	23-24	0	8	14	12	5	sw.	Edward Entwistle.	
Jersey City.....	Hudson.....	81	46	64.4	+2.7	89	31	43	19	1.82	-1.63	0.62	7	0	9	20	5	6	ne.	J. C. Water Dept.	
Lakewood.....	Ocean.....	54	40	65.4	+5.0	91	31	42	9†	1.63	-2.15	0.56	7	0	10	9	15	7	sw.	R. W. Holman.	
Lambertville.....	Hunterdon.....	75	57	65.6	+4.6	89	31	40	19	2.16	-1.50	0.50	13	0	8	13	7	11	sw.	Mabel Wollaston.	
Layton††, 3 miles NW.....	Sussex.....	480	43	63.6	+5.9	91	31	28	19	2.43	-0.71	0.63	15	0	9	14	5	12	s.	A. M. Depue.	
Little Falls.....	Passaic.....	157	41	65.2	+4.9	91	31	39	19	1.65	-2.29	0.56	7	0	9	15	11	5	nw.	Passaic Valley Water Co.	
Long Branch.....	Monmouth.....	34	36	63.3	+4.8	92	31	44	10	1.31	-2.54	0.47	7	0	8	13	8	10	s.	Storm Waru. Display Sta.	
Long Valley.....	Morris.....	660	14	61.7	+2.5	90	31	35	9	1.61	-1.73	0.54	15	0	9	16	10	5	sw.	Arthur Barkman.	
Marlton, 1 mile W.....	Burlington.....	90	3	.....	.....	.....	.....	.....	.....	1.47	.....	0.46	23	0	8	17	8	6	sw.	David Griscom.
Millville.....	Cumberland.....	60	4	.....	.....	.....	.....	.....	.....	1.60	.....	0.60	7	0	8	16	8	7	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	81	66.2	+4.9	88	31	43	9†	1.55	-1.97	0.48	23	0	6	17	7	7	sw.	Japanese Beetle Laboratory.	
Morris Plains.....	Morris.....	500	3	.....	.....	.....	.....	.....	.....	3.70	.....	1.55	12	0	10	15	10	6	.....	James C. Long.
Newark.....	Essex.....	10	90	65.6	+4.4	94	31	44	8	1.55	-2.32	0.56	7	0	9	6	13	12	sw.	U. S. Weather Bureau.	
New Brunswick.....	Middlesex.....	86	90	66.0	+5.5	89	31	43	19	2.10	-1.56	0.62	12	0	8	14	11	6	sw.	N. J. Experiment Station.	
New Milford††.....	Bergen.....	12	26	.....	.....	.....	.....	.....	.....	1.95	-1.49	0.62	7	0	10	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	61	.....	.....	89	31	33	19	2.06*	-1.55	.....	.....	.....	.....	.....	.....	.....	.....	Irving J. Kern.
Oranget†.....	Essex.....	140	4	.....	.....	.....	.....	.....	.....	1.81	.....	0.58	7	0	10	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	73	65.0	+3.5	93	31	40	19	1.57	-2.20	0.64	6	0	10	15	10	6	sw.	J. W. Cook.	
Pemberton.....	Burlington.....	55	15	68.0	+5.0	90	31	44	8†	1.37	-1.75	0.34	7	0	7	15	11	5	sw.	Charles A. Doehrlert.	
Phillipsburg.....	Warren.....	182	56	65.4	+4.3	91	31	36	21	1.68	-1.63	0.53	7	0	10	16	9	6	.....	Town Engineer.
Plainfield.....	Union.....	120	56	66.1	+5.9	92	31	43	19	1.77	-1.96	0.70	7	0	11	10	14	7	sw.	S. K. Pearson.	
Plainsboro.....	Middlesex.....	110	3	.....	.....	.....	.....	.....	.....	1.51	.....	0.64	13	0	5	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	46	63.3	+4.3	89	22	40	10	0.92	-2.26	0.36	7	0	6	14	9	8	s.	N. J. Water Policy Comm.	
Rahway.....	Union.....	20	5	.....	.....	.....	.....	.....	.....	1.45	.....	0.60	7	0	6	16	10	5	nw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	27	64.9	+5.0	93	31	40	19	1.41	-2.06	0.67	7	0	9	12	11	8	se.	George P. Kirsten.	
Runyon†.....	Middlesex.....	18	21	66.0	+6.5	89	31	39	8†	2.01	-1.41	0.69	13	0	7	12	13	6	w.	N. J. Water Policy Comm.	
Sandy Hook.....	Monmouth.....	15	46	63.2	+4.8	87	31	47	2	1.66	-2.06	0.54	7	0	8	.....	.....	.....	.....	U. S. Coast Guard.
Somerville.....	Somerset.....	385	61	65.9	+5.4	92	31	40	19	2.13	-1.41	0.54	7	0	9	15	9	7	s.	Norbert Larky.	
Sussex.....	Sussex.....	450	49	65.0	+5.3	91	31	33	19	1.54	-1.89	0.45	7	0	11	12	8	11	sw.	Marshall Hunt.	
Toms River.....	Ocean.....	33	23	.....	.....	.....	.....	.....	.....	1.12	-3.23	0.48	7	0	.....	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	72	67.0	+5.9	90	31	44	8	1.06	-2.02	0.35	7	0	9	7	14	10	s.	U. S. Weather Bureau.	
Trenton No. 2.....	do.....	105	14	67.4	.....	92	31	44	8†	1.38	.....	0.46	7	0	10	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	51	64.7	+4.8	88	31	42	1†	1.58	-1.86	0.68	24	0	7	16	8	7	sw.	John H. Brown.	
Vineland.....	Cumberland.....	110	64	.....	.....	.....	.....	.....	.....	1.37	-1.83	0.50	7	0	4	16	9	6	sw.	Robert Jones.
Westfield.....	Union.....	145	5	.....	.....	.....	.....	.....	.....	2.16	.....	0.50	8	0	7	17	3	11	se.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	26	.....	.....	.....	.....	.....	.....	1.92	-1.54	0.70	25	0	9	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	9	.....	.....	.....	.....	.....	.....	1.25	.....	0.65	7	0	5	21	7	3	sw.	Geo. S. Keen.
New York, N. Y.....	.....	10	74	65.1	+4.5	87	31	45	8	1.54	-1.70	0.60	7	0	9	11	12	8	sw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	74	67.4	+5.3	89	31	46	8	2.25	-1.01	1.00	23-24	0	9	5	10	16	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	65.3	+4.9	94	22†	28	19	1.67	-2.01	1.55	12	0	8	14	9	8	sw.	U. S. Weather Bureau.

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. ††Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, *, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also. §Length of precipitation record; temperature record is much shorter. *Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

ERRATA, JANUARY-MARCH, 1944.

January: Bridgeton total snowfall 3.3; Toms River total precipitation 5.02 (+1.10); Ridgefield number days with .01, 8. February: Plainfield total snowfall 10.7; Westfield total precipitation 2.33; New Milford precipitation page 7 on 15th .79; Vineland same on 11th .06. March: Cape May total precipitation 3.91 (+0.12); Elizabeth days with .01, 10; Hightstown same, 12; Phillipsburg mean temperature 35.0 (-3.5).

Daily Precipitation for May 1944

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast							.35									.01					.37			T.	.19	.01	.01	.07				1.01	
Barnegat City ⁴	do.							.21						.18		.02	.09								.01	.04							0.55	
Belleplain	Tuckahoe							.43														.83	.07		.34	.04	.03						1.74	
Belmar ²	Coast							.56				T.	.27	.28	T.	T.	.20	T.				.04	T.	.26	T.	.07	.03	T.	T.				1.71	
Belvidere	Delaware							.58	.16				.07	T.				.15				.05		.32		.31	.07	.05	.10				1.86	
Berlin	Mullica																																1.06	
Bloomton ³	Passaic								.49							.15	.77	.08							T.	.55	.11	.10	.01	T.			2.28	
Bridgeton	Delaware							.46									.06					.53	.05			.32		T.	.20				1.62	
Brooklawn	do.							.37						T.			.03					.05				1.10	T.						1.55	
Burlington	do.							.28							.51		T.	.28				.17				.13							1.37	
Canoe Brook ³	Passaic								.58					.28	.16		.21	.08					.04			.14	.24	.04	.10	T.			1.87	
Cape May ^{2†}	Coast							.40									T.					.88	.03			.02	T.	T.					1.33	
Charlotteburg	Passaic							.33	.10						.05		.38	.05							.15	.53	.07	.10		.05			1.81	
Chatham ²	do.							.52						.42	.21		.21	.07							.16	.25	.06	.05					1.97	
Chatsworth	Coast							.43	T.					.19		.33										.75							1.86	
Clayton	Delaware							.55								.16									.37		.06	.07					1.21	
Clinton	Raritan							.33	.05				.64	.03	.16		T.	.16				.07		.11	T.	.10	.06	.05		T.			1.76	
Culvers Lake	do.							.46	.32						.10	.40		.08								.30	.09	.05	.11				1.91	
Dover	Passaic							.54						.13		.15		.10						.04		.03	T.	.70	.17	.05			2.11	
Egg Harbor City ²	Mullica																																	
Elizabeth	Coast							.49						.29	.18		.08	.28				.01		.01	.22	.30	.03	.06	.02				1.97	
Flemington	Raritan							.33						.17	.29			.33				.06				.10		.14					1.42	
Fort Dix, A.A.B. ²	Delaware							.33						.30	.01	.02	.35					.12	T.	.01	.02	.03	.01	.01					1.21	
Freehold	Raritan							.62				.43	.35		.36	.33					.03					.02	.03	.02		T.			2.19	
Hammonton	Mullica							.41						.18			.25									.18		.02					1.04	
Hightstown	Raritan							.50				T.		.34		T.	.24					.06		T.	T.	.04	.01	.03					1.22	
Indian Mills	Mullica							.36						.21			.20	.10				.19			T.	.83	.01	.04	T.	T.			1.94	
Jersey City ²	Coast							.62						.16	.10	.10	.02							.28	.07	.42	.03	.02					1.82	
Lakewood	Metedeconk							.56						.10	.33		T.	.22				.10			.04		.13	.04	.08	.03			1.63	
Lambertville	Delaware							.30						.50		.20	.40							.12			.40	.09	.15				2.16	
Layton	do.							.30	.20					.07		.63	.10									.37	.11	.04	.61				2.43	
Little Falls ³	Passaic								.56					.27		.05	.14								.03	.44	.09	.06	.01				1.65	
Long Branch ^{2†}	Coast							.47					.05	.33		.16	.21								T.	.02	.05	T.	T.	T.			1.31	
Long Valley ³	Raritan							.51						.10		.54	.11								.02	.20	.03	.05					1.61	
Marlton	Delaware							.34						.16			.27	.03							.16		T.	.03		.02			1.47	
Millville ^{2†}	Maurice							.60								.08									.54	.03		.06	.20	.02		.07		1.60
Moorestown ³	Delaware							.36							.32		T.	.26								.48							1.55	
Morris Plains	Passaic							.51					1.55	.23	.13		.07								.35	.70	.08	.06					3.70	
Newark ¹	Coast							.56						.21		.20	.09	T.						.16	.01	.23	.06	T.	T.				1.55	
New Brunswick	Raritan							.52						.62	.53		.06	.24							.03		.08	.02	T.				2.10	
New Milford ^{2†}	Hackensack							.62							.15		.02	.10							.05	.17	.27	.03	.02	.52			1.36	
Newton	Delaware																.02																2.06	
Orange ^{2†}	Passaic							.58						.14		.36	.12								.02	.10	.31	.04	.01	.13			1.81	
Paterson ²	do.							.64						.04	.25		.02	.11						T.			.04	.33	.05	.01	.08		1.57	
Pemberton	Delaware							.34						T.		.33		.12	.17						T.	T.	.22		.06				1.37	
Phillipsburg	do.							.53						.04	.21		.35								.12	.09	.11	.05	.12				1.68	
Plainfield	Raritan							.70							.08		.26	.05	.14	.26					.02		.05	T.	.10	.06	.05		1.77	
Plainsboro	do.							.42								.64		.35								.06		.04					1.51	
Pleasantville ³	Coast								.36									.03								.28	T.						0.92	
Rahway ^{2†}	Rahway							.60						.08	.20		.10	.27								T.	T.	.20	T.				1.45	
Ridgefield	Hackensack							.67						T.	.20	.20	.01	T.	.15						.02	T.	.30	.02	.03				1.41	
Runyon	Coast							.49						.28	.69		.02	.32									.17		.04				2.01	
Sandy Hook ^{4†}	do.							.54						.01	.44		.11	.25							.01	T.	T.	T.	.25	.05	T.	T.	1.66	
Somerville	Raritan							.54				.17	.46	.20		.38		.18								.10	T.	.06					2.13	
Sussex	Hudson							.39	.06						.08	.10	.02	.15							.01	.41	.07	.05	.20				1.54	
Toms River	Coast							.48							.05		T.	.22							.07	.14		.05					1.12	
Trenton ^{1†}	Delaware							.35						.19		T.	.30								.11	.02	.01	.01	.05	.02	T.		1.06	
Trenton No. 2 ²	do.							.46						.17		.07	.31								.12	.08	.02	.03	.07	.05			1.38	
Tuckerton	Coast							.48							.03		.18								.09		.68	.08	.04				1.58	
Vineland ^{3†}	Maurice							.50																										

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

Daily Temperatures for May 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	75	58	60	65	66	64	60	69	62	61	60	65	64	70	70	66	78	62	62	66	75	72	59	61	64	70	80	74	71	81	67.3	
	Minimum...	52	50	51	53	54	54	52	48	51	50	52	56	56	57	59	58	57	55	53	52	55	60	54	55	57	59	63	62	59	63	55.2	
Barnegat City†.....	Maximum...	74	55	60	62	67	64	58	67	61	62	61	71	69	79	69	71	68	75	59	61	64	71	61	60	58	64	68	74	72	82	66.6	
	Minimum...	52	49	48	49	50	54	44	49	48	50	55	51	55	53	58	56	53	51	51	53	56	54	54	55	56	58	60	58	56	58	53.0	
Belleplain.....	Maximum...	82	72	82	84	84	77	66	68	76	76	80	82	86	82	85	87	82	79	67	67	76	88	78	66	68	77	81	85	83	84	78.6	
	Minimum...	44	50	49	56	56	57	54	38	41	36	50	48	58	61	46	54	51	57	40	47	44	56	56	52	53	55	55	62	54	44	48	50.7
Belvidere.....	Maximum...	85	76	84	92	90	82	74	70	79	79	84	80	89	83	85	82	85	75	72	76	81	87	78	61	63	70	89	87	89	87	93	80.8
	Minimum...	45	55	48	52	55	57	54	42	45	50	51	60	57	61	47	53	57	60	40	53	44	61	61	55	56	59	65	61	51	51	60	53.7
Boonton/......	Maximum...	82	64	82	85	87	82	65	69	76	76	82	84	85	78	80	80	82	74	68	75	77	84	65	59	60	70	86	85	87	83	91	77.5
	Minimum...	48	50	42	48	53	53	57	42	41	45	46	50	54	60	45	52	55	58	38	44	40	51	60	53	53	54	58	63	53	47	58	50.7
Bridgeton.....	Maximum...	85	82	86	89	89	81	70	69	77	80	83	85	89	80	86	89	85	80	74	69	77	90	85	66	71	77	82	83	88	85	90	81.4
	Minimum...	48	54	52	55	56	59	57	42	45	46	57	56	59	62	54	61	57	63	46	51	54	60	62	55	57	58	61	65	60	54	56	55.5
Burlington.....	Maximum...	84	84	85	87	88	85	75	68	78	82	82	85	90	87	84	83	81	80	74	70	80	89	85	62	62	78	85	80	89	89	81.5	
	Minimum...	48	53	48	54	57	58	60	43	42	48	55	58	59	62	63	60	60	61	52	57	52	52	59	60	55	52	62	62	60	53	75	56.1
Canoe Brook /.....	Maximum...	89	62	79	92	89	82	67	72	79	80	88	89	87	81	82	84	80	74	72	78	90	85	60	76	92	82	90	90	91	90	80.2	
	Minimum...	44	52	41	44	49	51	56	39	38	44	44	54	51	55	40	48	53	56	32	47	37	51	59	53	53	54	58	59	42	51	48.5	
Cape May*.....	Maximum...	77	57	60	65	65	64	60	66	62	70	64	64	69	71	76	76	72	80	60	62	65	73	72	65	70	69	73	84	79	74	69.1	
	Minimum...	52	50	52	53	52	52	54	51	52	52	52	56	56	59	59	61	59	56	53	51	55	62	56	57	58	60	63	62	62	59	62	56.1
Charlotteburg.....	Maximum...	80	79	81	87	86	86	80	66	75	76	82	81	85	85	80	79	81	80	69	74	77	84	75	62	58	65	86	82	83	81	88	78.5
	Minimum...	48	54	54	43	48	49	59	42	36	41	40	58	47	63	42	46	54	60	30	45	60	53	56	49	52	56	57	58	43	41	50	48.4
Chatsworth.....	Maximum...	82	70	88	90	90	82	65	68	79	85	90	91	87	89	86	82	80	75	69	79	94	84	62	62	76	84	86	85	87	92	81.2	
	Minimum...	42	48	50	64	64	53	57	40	38	38	52	50	53	57	50	50	64	64	42	50	45	61	54	53	54	55	58	62	53	62	62	53.1
Clayton.....	Maximum...	83	81	82	85	86	80	69	69	78	80	82	85	85	87	85	89	84	82	73	62	89	89	87	73	67	76	86	87	89	89	90	81.6
	Minimum...	49	54	47	64	55	58	58	43	45	44	56	55	57	60	56	62	62	47	51	52	60	55	56	58	64	64	59	52	51	55	50.7	
Dover.....	Maximum...	81	67	80	85	84	79	68	66	74	75	81	81	84	76	78	75	78	73	66	73	76	84	70	56	58	65	84	83	84	82	88	75.9
	Minimum...	50	47	45	48	53	55	42	41	47	46	60	50	60	45	57	56	49	35	51	40	58	54	52	53	55	55	53	47	59	50.7		
Elizabeth.....	Maximum...	85	77	80	85	89	85	72	71	76	75	84	85	84	84	84	81	83	80	72	73	76	89	81	60	60	71	86	89	85	86	92	80.0
	Minimum...	50	53	47	64	54	50	66	66	43	45	49	56	56	59	54	65	60	45	51	46	55	58	55	54	58	60	78	59	55	55	55.1	
Flemington.....	Maximum...	87	81	86	90	87	83	75	73	77	80	83	88	87	83	84	81	82	80	72	78	80	88	82	60	60	71	87	86	91	87	94	81.4
	Minimum...	47	53	46	49	52	54	60	43	42	48	50	58	57	61	48	54	55	61	42	51	48	58	54	55	57	62	63	54	51	55	53.2	
Fort Dix, A. A. B.*.....	Maximum...	80	68	83	86	86	80	63	66	77	77	80	83	87	78	82	82	80	75	68	70	79	88	80	60	60	74	83	85	85	85	90	78.1
	Minimum...	49	46	44	55	55	59	51	44	43	45	54	58	59	62	54	58	55	48	45	50	53	60	54	53	54	56	61	65	57	48	50	53.4
Freehold.....	Maximum...	78	69	83	88	89	81	69	67	78	74	82	81	87	82	81	82	82	78	73	70	76	89	83	58	60	74	83	85	86	86	91	78.9
	Minimum...	50	49	44	54	55	55	54	43	43	43	50	57	57	57	50	54	53	59	42	48	48	55	54	51	53	54	59	62	53	47	57	51.9
Hammonton.....	Maximum...	83	70	85	81	88	82	67	69	81	80	85	87	88	82	88	87	85	81	70	70	80	90	80	69	65	76	84	88	87	87	93	79.9
	Minimum...	44	51	45	56	57	56	49	43	44	42	49	56	58	61	48	59	55	61	43	56	51	58	56	54	55	55	60	63	56	41	55	53.8
Hightstown.....	Maximum...	82	66	83	86	86	80	69	67	78	77	81	84	85	79	81	81	81	77	68	72	81	87	80	59	59	73	83	85	84	85	89	78.3
	Minimum...	48	52	45	54	55	58	58	44	44	45	50	58	60	59	49	54	55	60	42	50	47	57	54	52	54	56	61	62	52	47	55	52.8
Indian Mills.....	Maximum...	84	72	85	88	89	83	66	68	79	82	85	87	90	80	87	90	85	79	70	72	80	90	80	63	64	77	83	87	90	90	91	81.2
	Minimum...	46	52	44	56	57	56	59	42	44	41	57	56	57	59	46	56	54	61	43	50	50	59	56	54	56	57	60	63	50	45	54	52.9
Jersey City*.....	Maximum...	78	65	68	80	80	75	66	66	66	66	72	78	79	78	82	76	76	71	60	68	68	64	68	59	60	68	78	82	80	89	73.1	
	Minimum...	57	48	53	59	62	58	48	47	49	52	55	60	60	62	58	58	55	43	54	52	58	58	54	52	56	60	67	61	55	62	55.8	
Lakewood.....	Maximum...	82	75	83	89	90	81	68	68	76	70	78	87	88	81	80	78	78	76	68	70	75	89	76	57	59	73	82	86	82	82	91	78.0
	Minimum...	50	52	44	55	51	56	56	44	42	42	53	59	58	59	49	55	54	60	44	48	50	59	55	53	54	55	60	65	55	48	55	52.9
Lambertville.....	Maximum...	83	71	83	86	86	82	75	73	78	77	82	85	87	84	82	81	80	77	71	71	77	88	82	63	61	72	84	84	87	83	89	79.5
	Minimum...	41	50	47	51	52	57	59	43	42	48	51	58	58	49	53	54	60	40	50	49	58	55	53	54	56	63	60	51	49	54	51.7	
Layton.....	Maximum...	83	68	81	88	87	80	72	69	75	78	80	83	87	83	81	75	83	72	69	76	76	85	72	59	60	68	86	83	84	83	91	78.0
	Minimum...	38	50	40	45	49	50	58	39	37	52	45	55	65	59	42	48	54	53	28	41	32	60	56	56	54	57	65	58	45	46	52	49.3
Little Falls /.....	Maximum...	84	61	81	88	89	80	63	72	74	75	82	82	87	81	82	80	83	75	70	77	76	86	63	58	59	72	87	87	87	85	91	78.0
	Minimum...	50	51	45	49	54	56	56	45	43	48	48	59	56	62	4																	

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX.

JUNE 1944.

No. 6

GENERAL SUMMARY.

June was somewhat warmer than normal though there was no severe heat wave as in June, 1943, which was the warmest June of record in New Jersey. The hottest weather was from the 16th to 18th, and from 27th to 29th. Some stations in the southern interior recorded 90° or higher on ten days during the month, but three or four days with such readings was the rule. The coolest mornings were on the 5th and 8th, when many stations reported readings in the thirties. There was no frost except in the cranberry bogs.

The comparatively dry weather of May continued until June 10, when copious rains were general over the State. These were the heaviest of the month and exceeded 2.00 inches at many stations in the central counties. Further moderate rains fell at frequent intervals during the remainder of the month. The average for the State was slightly above normal, but there was great variation in the rainfall of different localities with monthly totals ranging from 0.69 inch at Barnegat City to 8.06 inches at Plainfield. The driest areas were Ocean and Burlington Counties. In general, however, crops were in good condition at the close of the month. Hail did considerable damage to crops, particularly tomatoes, in Burlington County on June 18th. Winds of gale force were registered in coastal areas on the 19, 20, and 29th.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 43 stations, was 70.4°, which was 1.4° above normal. The highest temperature was 100° at Canoe Brook on the 18th, and the lowest, 33°, at Runyon on the 8th. The highest monthly mean temperature was 73.0° at Elizabeth, and the lowest, 66.8°, at Long Valley.

The temperature departure from the normal for the year 1944 to date, for the State, is +1.0°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 61 stations, was 4.08 inches, which was 0.25 inch above normal. The greatest monthly precipitation was 8.06 inches at Plainfield, and the least, 0.69 inch at Barnegat City. The greatest amount of precipitation in any 24 consecutive hours was 3.33 inches at Long Branch on the 10th.

The average for the Highlands was 4.49 inches; for the Red Sandstone Plain, 4.36 inches; for the Southern Interior, 3.95 inches; and for the Sea Coast, 3.09 inches.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: the Highlands, -0.20 inch; Red Sandstone Plain, +1.90 inches; Southern Interior, +0.72 inch; Sea Coast, -0.41 inch.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 16, 19, 28, 29.

THUNDERSTORMS: 1, 2, 10, 18, 19, 20, 22, 23, 24, 29, 30.

HAIL: 29.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.34	9	29.39	24	14.2	50	sw.	19	84	75	82	69	20
Long Branch.....	30.32	9	29.35	24	12.0	40	n.	29	78	55	66	60	30
Trenton.....	30.32	9	29.38	4	8.4	23	nw.	18	76	55	61	61	17

COMPARATIVE DATA FOR JUNE.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	68.7	97	39	1.79	0	.....	.....	.....
1886.....	67.1	91	41	3.38	0	.....	.....	.....
1887.....	68.2	97	42	6.77	0	10	.....	.....
1888.....	70.8	99	39	2.59	0	6	.....	.....
1889.....	69.9	91	40	3.73	0	10	.....	.....
1890.....	70.7	95	42	3.59	0	7	.....	.....
1891.....	69.7	102	38	2.92	0	5	14	13
1892.....	72.4	98	41	3.85	0	11	10	12
1893.....	69.7	103	40	2.95	0	8	10	11
1894.....	70.6	102	35	2.28	0	9	14	11
1895.....	71.7	103	39	3.24	0	10	11	11
1896.....	68.1	96	37	5.46	0	10	12	10
1897.....	66.1	95	35	3.38	0	10	10	13
1898.....	70.1	100	38	2.10	0	8	14	12
1899.....	72.3	103	38	2.50	0	7	15	10
1900.....	70.4	97	39	3.08	0	8	12	12
1901.....	70.0	103	35	1.57	0	5	18	8
1902.....	67.5	99	37	6.57	0	11	14	11
1903.....	64.0	92	37	7.68	0	15	6	10
1904.....	68.6	100	34	3.13	0	12	13	10
1905.....	68.3	96	35	3.43	0	10	11	12
1906.....	70.4	98	38	4.48	0	12	11	11
1907.....	64.7	96	31	4.41	0	10	12	10
1908.....	69.9	99	35	2.32	0	4	16	12
1909.....	70.0	99	36	3.26	0	12	9	10
1910.....	66.9	95	34	5.17	0	13	9	10
1911.....	68.9	97	40	5.36	0	14	9	12
1912.....	68.0	98	33	1.94	0	8	9	12
1913.....	69.1	98	31	1.80	0	5	19	8
1914.....	68.5	98	35	2.66	0	7	14	9
1915.....	67.0	95	37	3.12	0	11	13	10
1916.....	64.7	87	36	4.20	0	13	10	9
1917.....	68.9	95	40	4.27	0	12	13	10
1918.....	66.3	96	32	3.43	0	8	15	9
1919.....	69.5	99	38	3.16	0	8	16	7
1920.....	68.4	98	38	6.18	0	12	13	9
1921.....	70.4	100	33	3.23	0	8	18	7
1922.....	71.1	95	39	6.31	0	15	12	9
1923.....	72.5	106	37	2.08	0	7	18	8
1924.....	66.8	95	30	4.20	0	13	11	11
1925.....	73.6	103	36	3.10	0	9	17	9
1926.....	64.9	97	31	2.60	0	11	12	9
1927.....	65.4	97	31	3.16	0	10	15	9
1928.....	66.6	93	36	6.75	0	15	10	9
1929.....	69.5	98	33	3.11	0	9	15	9
1930.....	70.8	98	30	4.17	0	8	16	8
1931.....	69.3	101	40	4.84	0	10	16	7
1932.....	69.3	98	30	3.68	0	10	13	8
1933.....	71.0	105	32	2.79	0	9	17	8
1934.....	72.6	103	38	3.68	0	7	16	9
1935.....	68.9	96	38	4.64	0	13	14	8
1936.....	69.1	99	38	4.93	0	12	12	7
1937.....	70.5	99	41	4.66	0	13	11	9
1938.....	67.2	96	29	7.79	0	13	11	9
1939.....	70.8	99	35	3.55	0	10	12	9
1940.....	68.6	95	32	3.28	0	10	12	9
1941.....	69.4	98	37	5.09	0	9	15	7
1942.....	69.8	96	41	3.11	0	11	11	9
1943.....	74.2	102	43	3.24	0	9	17	6
1944.....	70.4	100	33	4.08	0	10	12	10
Period....	69.0	106	29	3.83	0	10	13	10

Climatological Data for June 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, 0.1 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	71	69.8	+3.2	91	17	51	8	4.21	+1.17	1.03	30	0	11	12	11	7	s.	U. S. Weather Bureau.
Barneget City	Ocean	86	5	69.4		91	17	49	5	0.69		0.36	14-15	0	8					U. S. Coast Guard.
Belleplain	Cape May	49	50	68.9	-0.4	93	18	37	8	5.26	+1.82	2.35	19	0	11	14	11	5	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	3							2.62		1.40	10	0	11				w.	City Water Dept.
Belvidere	Warren	289	52	70.4	+1.0	96	29	42	8	4.30	+0.30	1.14	14	0	9	12	8	10		Miss C. S. Hixson.
Berlin	Camden	70	3							1.80		0.80	14	0	4	14	11	5		Samuel H. McCulley.
Boonton	Morris	280	54	68.8	+1.3	90	16†	38	8	3.15	-0.81	1.11	20	0	11	12	7	11	ne.	John Kline.
Bridgeton	Cumberland	30	61	72.6	+0.5	95	18	47	8	4.97	+1.05	1.93	19	0	10	12	9	9	nw.	Bennett K. Matlack.
Brooklawn	Camden	30	3							2.76		1.07	19	0	7					C. D. Scott.
Burlington	Burlington	12	58	72.8	+1.4	94	18	46	5	4.13	-0.44	1.50	10	0	11	15	5	10	sw.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	14	69.4	+2.1	100	18	34	8	3.48	-1.02	1.10	10	0	10	14	9	7	w.	N. J. Water Policy Comm.
Cape May	Cape May	17	56	70.4	+2.7	89	17	54	4†	1.87	-1.17	0.67	19	0	9	10	17	3	nw.	Naval Air Station.
Charlotteburg††	Passaic	760	52	67.6	+2.0	91	29	35	5	4.53	+0.07	1.47	19	0	10	8	10	12	w.	Newark Water Dept.
Chatham	Morris	185	40							3.26	-0.70	1.04	10	0	7	9	15	6		Edward P. Molitor.
Chatsworth	Burlington	90	4	70.8		96	29	36	5	2.63		0.87	14-15	0	8	11	13	6	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	31	71.8	+2.2	95	18	44	4	3.21	-0.53	1.01	14-15	0	8	11	5	14	w.	Worthy Hitt.
Clinton	Hunterdon	300	1							4.43		1.14	18-19	0	9	9	14	7	sw.	L. W. Klockner.
Culvers Lake††	Sussex	760	43							7.07	+2.63	1.14	21	0	11					L. S. Depue.
Dover	Morris	600	60	67.8	+0.8	90	18	41	5†	3.75	-0.68	0.77	19	0	7	8	14	8		William C. Harris.
Egg Harbor City	Atlantic	63	22																	Chas. E. Hall.
Elizabeth	Union	34	65	73.0	+2.4	94	18†	42	8	4.30	-0.70	1.46	10	0	9	16	6	8	ne.	Union County Park Comm.
Flemington	Hunterdon	140	58	72.6	+2.7	96	27	40	8	5.74	+2.13	2.31	10-11	0	9	18	7	8	nw.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120		70.2		92	29	44	5	4.59		1.33	10	0	10	8	12	10	sw.	A. A. B. Weather Station.
Freehold	Monmouth	194	40	70.2	-0.3	91	18	40	5	5.19	+1.44	2.96	10	0	12	15	9	6	w.	Moreau Plant Co.
Hammononton	Atlantic	95	38	72.2	+0.8	95	18	40	5	2.60	-1.16	0.84	14-15	0	12	14	11	5	sw.	J. G. Wilson.
Hightstown	Mercer	110	51	70.6	+1.4	91	16†	40	5	5.74	+1.98	3.42	10	0	10	11	13	6	w.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington	100	55	71.2	+1.2	96	18	36	5	1.93	-2.00	0.86	14	0	10	12	11	7	s.	Edward Entwistle.
Jersey City	Hudson	81	46																	J. C. Water Dept.
Lakewood	Ocean	54	40	70.6	+1.8	93	29	39	5	2.83	-1.18	1.30	10-11	0	8	8	12	10	w.	R. W. Holman.
Lambertville	Hunterdon	75	57	71.2	+1.7	92	29	42	8	4.72	+0.96	1.75	10-11	0	8	15	5	10	sw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex	480	43	67.8	+1.7	91	16†	34	8	3.99	-0.54	0.86	19	0	10	14	4	12	nw.	A. M. Depue.
Little Falls	Passaic	157	41	70.6	+1.4	92	16†	41	8	4.84	+0.82	1.59	10	0	12	13	11	6	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	36	69.5	+1.8	94	16	43	5	5.76	+1.90	3.33	10	0	10	12	7	11	w	Storm Warn. Display Sta.
Loug Valley	Morris	660	14	66.8	-1.1	91	29	41	9	3.98	-0.53	1.57	19-20	0	10	16	8	6	sw	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	3							3.38		1.03	18-19	0	10	11	13	6	nw.	David Griscom.
Millville	Cumberland	60	4							5.32		2.17	18-19	0	11	14	9	7		Paul Ritchie.
Moorestown	Burlington	62	81	70.7	+0.5	92	18	43	5	2.88	-0.90	1.08	10	0	8	14	11	5	sw.	Japanese Beetle Laboratory
Morris Plains	Morris	500	3							4.20		1.26	19-20	0	9	15	7	8	sw.	James C. Long.
Newark	Essex	10	90	71.4	+1.8	95	29	48	8	3.52	-1.00	1.74	10	0	9	5	13	12	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	90	71.4	+2.1	91	29	43	5	3.40	-0.28	1.46	10	0	11	15	8	7	sw.	N. J. Experiment Station.
New Milford††	Bergen	12	26							3.45	-0.57	0.92	10-11	0	10					Hackensack Water Co.
Newton	Sussex	769	61	69.7	+1.8	90	28†	41	8	7.15	+2.67	1.80	20	0	14	7	10	13	sw.	Irving J. Kern.
Oranget††	Essex	140	4							3.68		1.19	25	0	11					County Engineer.
Paterson	Passaic	95	73	70.4	+0.3	94	18	43	5†	3.87	+0.17	1.10	10	0	11	12	11	7	sw.	J. W. Cook.
Pemberton	Burlington	55	15	72.6	+1.0	94	18	42	5	4.26	-0.34	1.58	10-11	0	10	14	7	9	nw.	Charles A. Doeblert.
Phillipsburg	Warren	182	561	69.6	+0.1	94	29	45	8	4.08	+0.35	1.23	18-19	0	8	11	10	9		Town Engineer.
Plainfield	Union	120	56	70.4	+1.5	93	18	43	5	8.06	+4.19	2.39	10	0	11	6	15	9	nw	S. K. Pearson.
Plainsboro	Middlesex	110	3							3.31		1.91	10	0	7					Walker-Gordon Lab.
Pleasantville††	Atlantic	8	46	70.2	+1.7	94	18	40	8	3.22	-0.28	0.96	14-15	0	8	13	11	6	s.	N. J. Water Policy Comm.
Rahway	Union	20	5							4.87		2.00	10	0	10	11	10	9	nw.	Louis Fontenelli.
Ridgefield	Bergen	80	27	70.1	+1.4	94	16	42	8	3.01	-1.13	0.95	19	0	11	9	12	9	se.	George P. Kirsten.
Runyon††	Middlesex	18	21	70.4	+1.8	94	29	33	8	2.96	-1.38	1.31	10	0	9	15	9	6	w.	N. J. Water Policy Comm.
Sandy Hook	Monmouth	15	46	70.2	+2.4	91	18	51	5	3.40	-0.38	1.56	10	0	9					U. S. Coast Guard.
Somerville	Somerset	385	61	71.1	+2.0	95	29	39	8	6.46	+2.95	1.93	11	0	8	17	10	3	s.	Norbert Larky.
Sussex	Sussex	450	49	69.3	+1.9	91	16†	39	8	4.15	+0.07	0.88	18-19	0	12	8	9	13	s.	Marshall Hunt.
Toms River	Ocean	33	23							1.37	-2.31	0.53	10	0	11					Robt. F. Snyder.
Trenton	Mercer	56	72	71.2	+1.7	93	29	48	5	5.47	+2.38	2.59	10	0	8	6	13	11	sw.	U. S. Weather Bureau.
Trenton No. 2	do.	105	14	71.8		93	18†	45	5	5.72		2.49	10	0	8					Edward H. Ristow.
Tuckerton	Ocean	23	51	71.4	+2.5	94	18	40	5	2.98	-0.75	1.03	14-15	0	10	15	6	9	w.	John H. Brown.
Vineland	Cumberland	110	64							6.03	+2.41	2.00	17-18	0	11	16	8	6	sw.	Robert Jones.
Westfield	Union	145	5							4.82		1.73	10	0	8	15	6	9	s.	Town Engineer.
Woodcliff Lake††	Bergen	103	26							2.70	-1.10	1.04	20	0	12					Hackensack Water Co.
Woodstown	Salem	16	9							6.56		2.50	19	0	8	16	11	3	nw.	Geo. S. Keen.
New York, N. Y.		10	74	70.4	+1.6	90	27	51	5	3.38	+0.05	1.37	10	0	10	9	12	9	u.	U. S. Weather Bureau.
Philadelphia, Pa.		10	74	72.2	+1.6	95	18	50	8	3.23	-0.01	1.57	18-19	0	9	5	13	12	sw.	U. S. Weather Bureau.
For the State				70.4	+1.4	100	18	33	8	4.08	+0.25	3.42	10	0	10	12	10	8	sw.	

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. †Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also.

§Length of precipitation record; temperature record is much shorter.

*Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for June 1944

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ¹	Coast	.91						T.			.01				.81	.03			.09	.61	.08			.29	.18	.17				T.	1.03	4.21	
Barneget City ⁴	do										.05				.32	.04			.01	.12					.05	.05					.05	.69	
Relleplain	Tuckahoe		.86	.16							.10				.43	.39				2.35	.26			T.	.52	.08	.05				.06	5.26	
Belmar ²	Coast	.01	.09	T.							1.40				.15	T.				.34	.24				.15	.02				.03	.04	2.62	
Belvidere	Delaware	T.	T.								.62				1.14	.12				.96	.95	.30	.02	T.	.05	.14						4.30	
Berlin	Mullica							.30			.30				.80						.95	.30	.02		.40							1.80	
Boonton ³	Passaic										.07	.58				.23	.02				.10	1.11	.08	.12	T.	.02	.76				.06	3.15	
Bridgeport	Delaware							T.			.20	.10			.61	.05				1.93	.12			.10	1.50	.13	.23					4.97	
Brooklawn	do										T.	.36			.40	.50				1.07				.11	.05				.27			2.76	
Burlington	do										.85	.65			.95	.29				1.07	.10			.04	.06	.04	.07			.01		4.13	
Canoe Brook ³	Passaic										.07	1.03				.15	.01			.20	.74	.18	.08		.04	.98						3.48	
Cape May ²	Coast	T.						T.			T.				.34	.02			T.	.67	.04	T.		.37	.03	.14				.01	.25	1.87	
Charlotteburg	Passaic							.33			.70	.10			.47	.03	.14			1.47	.75	.10			.51						.40	4.53	
Chatham ³	do										T.	1.04				.12	T.			.18	.63	.23	.09		T.	.97						3.26	
Chatsworth	Coast										.17	T.			*	.87				.76	.20	T.			*	.44	.19					2.63	
Clayton	Delaware		.58								.42				.59	.42			.42	.36					.17	.25	T.					3.21	
Clinton	Raritan										.43	.23			1.05	.22				1.14	1.05	.19			.08	.04						4.43	
Culvers Lake	do	T.						.43			.95	.25			.25	.20				.98	.98	1.14			1.00	.58	T.			.31		7.07	
Dover	Passaic										.53				.32	.08				.77	.64	.71			.70							3.75	
Egg Harbor City ²	Mullica										.91	.55			.03	.10				1.01	.58	.08			T.	1.02				.02		4.30	
Elizabeth	Coast	T.																															
Flemington	Raritan										.54	1.77			1.07	.39				.82	.66	.11	T.	T.	.12	.26						5.74	
Fort Dix, A.A.B. ²	Delaware		1.18								1.33				.70	.01			.34	.43	.02	T.	T.	.05	.52	.01				T.		4.59	
Freehold	Raritan		.05								2.13	.83			.01	.16			.33	.75	.30	.01			.40	.14				.08		5.19	
Hammonton	Mullica							.02			.28	.03			.72	.12				.41	.06				.14	.40	.09	.11		.22		2.60	
Hightstown	Raritan		T.								2.11	1.31			.29	.10				.85	.18	T.	T.	T.	.04	.55	.06			.25		5.74	
Indian Mills	Mullica										.26	.03			.72	.14		T.		.19	.08		T.		.13	.09	.21	.08		T.		1.93	
Jersey City ²	Coast																																
Lakewood	Metedeconk										.65	.65			.04	.22				.50	.30				T.	.27				.20		2.83	
Lambertville	Delaware										.35	1.40			1.00	.25		T.		*	1.46			.08	T.				.18		4.72		
Layton	do	.04						.23			.82	T.			.49	.04				.86	.57	.54			.36	.04						3.99	
Little Falls ³	Passaic		.02								.06	1.53				.07	.01			.13	1.31	.18	.13		.01	1.04				.35		4.84	
Long Branch ²	Coast	T.	T.					T.			3.33				.07	T.		T.	.12	.91	.04	.23		.01	.34	.03				.68	T.	5.76	
Long Valley ³	Raritan										.48				.82	.02				.28	1.57	.14	.08		.02	.54	.03					3.98	
Marlton	Delaware										.73	.15			.68	.22				1.03	.22			.02	.18	.12			.03			3.38	
Millville ²	Maurice	1.18									.22				.53				1.74	.43	.07			.86	.06		.03		.13	.07		5.32	
Moorestown ³	Delaware										T.	1.08			T.	1.05				.10	.30				.05	.23	.06			.01		2.88	
Morris Plains	Passaic										.60	.12			.12	.17				.78	1.26	.46	T.		.50				.19		4.20		
Newark ¹	Coast	T.	T.					T.			1.74				T.	.08	T.		.02	.81	.11	.17	T.	T.	.55	.03			.01		3.52		
New Brunswick	Raritan		.10								.28	1.18			.03	.23				.55	.34	.06	T.		.05	.46			.12		3.40		
New Milford ²	Hackensack										.92				.04					.40	.90	.41	.16		.01	.42	.06			.13		3.45	
Newton	Delaware	.01						.45	T.		.60	.40	T.		.40	.12				1.00	1.80	.58		.01	1.29	.05	.02			.42		7.15	
Orange ²	Passaic		.01								*	.88			.02	.07			*	1.01	.22	.16			*	1.19				.12		3.68	
Paterson ²	do		.47								1.10				.01	.04				.74	.64	.16		.02	.33	.02			.34			3.87	
Pemberton	Delaware										.85	.73			.64	.35				.79	.09			.04	.06	.56		.15			T.	4.26	
Phillipsburg	do	T.						T.			.76				1.04	.09			.39	1.23	.30	.08	T.	T.	.19	T.			T.		4.08		
Plainfield	Raritan	T.	.85					T.			2.39	.97			.17	.09				1.68	.74	.47	T.	T.	.64	.04				.02		8.06	
Plainsboro	do										1.20	.71			*	.58				.52	.20								.10			3.31	
Pleasantville ³	Coast		.88									.50			T.	.96				.08	.23				.20	.23	.14					3.22	
Rahway ²	Rahway										2.00				.02	.08				20	1.28	.20	.20			.72	.12			.05		4.87	
Ridgefield	Hackensack	T.	.17								.60	.13			T.	.01				.95	.10	.51		.01	.08	.12			.33		3.01		
Runyon	Coast										.52	.79			.19					.73	.27	.08			.05	.23			.10			2.96	
Sandy Hook ²	do	T.	T.					T.			1.56				T.	.01			.10	1.15	.01	.06	T.		.11	.04	T.			.36	T.	3.40	
Somerville	Raritan										.42	1.93			.42	.22				1.23	.92				T.	.57	.75					6.46	
Sussex	Hudson	.01						.23			.79	.23			.06	.10				.88	.87	.46	T.		.42	.03			T.		.07	4.15	
Toms River	Coast		.12								*	.53				.05				.19	.07				.03		.10	.12	.03		.13	1.37	
Trenton ¹	Delaware							T.			2.59				.94	.05	T.			.90	.69		T.	T.	.07	.22	.01			T.		5.47	
Trenton No. 22	do										2.49				1.07	.10				.89	.79		T.	T.	.03								

Daily Temperatures for June 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	90	78	88	60	66	73	78	67	73	70	72	83	79	67	67	78	91	84	79	81	72	84	78	79	77	77	79	77	77	78	76.7
	Minimum...	66	67	59	55	54	62	57	51	58	63	59	63	65	61	61	66	70	69	69	61	58	63	68	65	65	63	68	66	70	67	63.0
Barnegat City†.....	Maximum...	87	76	87	64	65	74	78	69	75	69	78	86	78	68	70	81	91	85	76	81	72	90	78	79	77	78	80	77	81	79	77.6
	Minimum...	64	64	58	54	49	60	54	50	55	60	58	60	64	59	62	67	66	66	60	57	60	68	67	63	62	67	63	69	68	61.1	
Belleplain.....	Maximum...	92	87	88	84	72	83	75	71	81	80	78	85	86	67	70	88	91	93	88	79	78	84	83	78	76	84	89	87	91	86	82.5
	Minimum...	63	60	65	53	38	49	60	37	43	47	53	49	58	58	57	60	62	56	64	65	52	53	61	62	61	57	61	57	48	51	55.3
Belvidere.....	Maximum...	85	91	81	73	72	83	76	74	85	69	83	86	86	70	71	92	90	93	85	82	71	78	80	76	80	89	92	94	96	85	82.3
	Minimum...	47	64	64	55	53	54	58	42	47	49	58	52	60	60	57	62	63	59	63	67	58	53	62	68	64	60	61	65	66	68	58.6
Boonton/.....	Maximum...	83	89	82	68	69	82	73	75	82	67	80	83	85	69	69	88	90	82	82	69	82	71	78	76	77	86	90	89	90	84	80.5
	Minimum...	63	65	65	53	40	50	57	38	44	50	57	50	59	54	56	58	64	58	61	61	58	57	60	66	63	56	58	63	64	67	57.2
Bridgeton.....	Maximum...	92	91	88	82	75	83	77	75	81	80	78	85	87	79	72	90	91	95	87	78	73	86	83	77	80	85	89	86	94	83	83.6
	Minimum...	66	65	67	55	48	59	68	47	51	60	57	58	63	60	60	64	65	63	67	67	57	58	65	65	63	62	67	64	67	71	61.6
Burlington.....	Maximum...	93	90	89	81	77	85	84	77	84	80	80	86	86	84	71	91	91	94	90	79	73	86	85	77	83	89	92	92	93	92	85.1
	Minimum...	66	65	69	53	46	54	65	48	52	57	57	52	64	60	58	65	65	61	68	69	58	56	65	65	63	61	67	63	68	69	60.6
Canoe Brook /.....	Maximum...	89	94	85	71	68	80	81	78	89	73	87	85	88	63	73	96	94	100	79	86	74	82	85	83	82	92	92	96	93	85	84.1
	Minimum...	59	60	60	53	36	49	60	34	41	51	53	45	53	51	55	59	61	51	62	63	57	48	55	67	61	53	55	59	62	64	54.6
Cape May*.....	Maximum...	88	82	87	62	65	72	74	67	74	71	73	79	81	68	70	82	89	86	80	78	72	84	77	79	78	80	77	76	77	81	77.0
	Minimum...	64	66	62	54	56	62	58	54	61	63	63	61	63	62	64	65	68	70	68	65	62	66	66	68	66	66	68	66	67	67	63.7
Charlotteburg.....	Maximum...	87	87	87	77	67	79	77	73	79	79	76	81	80	79	66	90	89	89	80	76	82	82	79	78	85	90	90	91	90	91	81.8
	Minimum...	60	60	58	48	35	46	50	40	43	50	53	43	53	44	53	59	65	50	56	64	55	48	58	64	58	50	51	57	65	65	53.4
Chatsworth.....	Maximum...	92	89	87	78	76	87	78	75	85	76	80	87	89	74	72	93	92	94	90	80	73	87	85	78	75	85	91	92	96	93	84.3
	Minimum...	65	62	63	54	36	60	64	37	40	47	49	48	57	59	58	62	67	54	60	63	63	65	66	62	62	55	62	57	64	66	57.2
Clayton.....	Maximum...	92	89	88	89	80	84	74	76	82	78	73	85	84	84	71	91	88	95	84	79	73	86	84	80	87	84	91	89	94	89	84.1
	Minimum...	61	65	65	44	50	53	62	45	48	55	55	57	61	60	59	65	66	61	68	66	55	55	64	68	61	60	64	61	66	68	59.6
Dover.....	Maximum...	82	87	81	65	68	73	72	79	67	77	83	82	65	68	89	87	90	77	80	69	81	80	75	75	83	88	89	89	84	83	78.8
	Minimum...	62	65	62	52	41	49	52	41	48	57	55	50	58	50	54	61	66	59	50	61	56	64	66	63	62	55	58	64	68	63	56.7
Elizabeth.....	Maximum...	93	85	88	76	76	87	79	79	85	78	81	87	87	81	68	93	93	94	88	84	76	81	84	78	77	89	94	94	94	88	81.6
	Minimum...	68	70	65	55	43	52	51	42	48	65	56	55	60	50	65	70	70	71	65	59	57	62	68	62	71	75	64	72	67	67	61.3
Flemington.....	Maximum...	88	91	90	79	72	86	81	81	87	77	80	88	87	84	70	93	90	93	87	87	73	88	81	78	80	91	96	92	95	92	85.2
	Minimum...	63	64	68	55	44	49	62	40	48	59	56	55	62	61	56	62	66	59	64	65	59	66	64	67	64	62	64	66	69	69	60.0
Fort Dix, A. A. B.*.....	Maximum...	88	89	84	65	75	84	75	74	84	70	77	82	83	65	69	88	89	91	84	78	71	84	82	76	75	85	89	90	92	83	80.7
	Minimum...	65	66	57	48	44	55	53	47	54	58	55	60	61	58	59	64	65	63	68	60	57	56	65	65	64	61	66	63	68	66	59.7
Freehold.....	Maximum...	88	86	83	71	74	85	79	73	81	77	77	84	84	82	69	88	89	91	89	80	79	84	83	77	75	86	90	90	90	89	82.4
	Minimum...	64	64	62	52	40	55	64	41	48	51	55	56	60	59	55	61	58	64	65	56	54	62	65	61	58	63	61	61	67	67	58.1
Hammonton.....	Maximum...	92	90	90	88	78	87	78	78	84	75	79	86	90	78	73	92	91	95	86	79	79	88	84	79	83	88	93	91	94	85	85.1
	Minimum...	65	64	62	54	40	55	64	42	49	55	56	58	62	59	63	67	60	66	64	60	66	64	65	63	63	61	64	61	67	67	59.3
Hightstown.....	Maximum...	88	89	85	73	78	87	76	84	70	78	83	84	72	69	91	89	91	81	79	70	85	81	75	75	86	90	90	91	85	85	82.1
	Minimum...	64	65	68	58	40	54	60	42	49	53	54	56	61	57	56	63	65	59	64	65	57	55	64	65	62	59	65	63	66	67	59.0
Indian Mills.....	Maximum...	93	89	88	74	78	86	77	78	84	74	80	85	91	74	71	92	91	96	82	79	72	87	85	76	78	89	94	92	94	88	83.9
	Minimum...	62	64	67	55	36	53	61	37	44	54	55	57	61	59	59	64	63	57	68	65	55	54	64	64	63	59	64	59	67	68	58.6
Jersey City*.....	Maximum...	90	83	85	72	72	84	79	72	81	73	76	84	85	79	69	91	89	92	79	78	72	84	82	76	73	85	88	89	93	90	81.5
	Minimum...	65	66	67	55	39	50	65	44	50	49	55	57	61	57	66	65	60	67	66	58	55	63	67	63	59	63	61	68	67	67	59.6
Lakewood.....	Maximum...	85	89	85	78	69	83	80	75	81	79	80	83	82	81	69	90	89	91	85	87	71	84	75	78	86	86	90	90	92	90	82.8
	Minimum...	63	65	67	55	46	54	63	42	48	60	55	55	60	60	55	62	64	59	64	65	58	54	65	64	60	62	64	64	67	65	59.5
Lambertville.....	Maximum...	82	85	79	74	70	80	74	74	80	72	82	85	83	69	72	91	86	89	80	80	70	82	80	78	80	85	87	90	91	82	80.4
	Minimum...	60	63	62	44	49	54	51	34	41	54	55	40	65	51	54	60	57	53	59	57	52	48	57	68	62	57	57	62	63	58	55.1
Little Falls/.....	Maximum...	84	88	82	68	70	84	76	81	83	75	80	85	85	69	76	92	90	92	83	82	70	84	83	77	77	88	92	91	92	86	82.2
	Minimum...	65	65	65	53	42	52	62	41	52	61	58	51	59	55	57	59	70	59	61	63	58	54	61	68	63	57	60	65	72	65	59.1
Long Branch*.....	Maximum...	88	81	85	63	67	79	77	68	79	68	78	84	85	67	70	94	90	90	78	81	69	85	79	76	72	82	88	83	93	84	79.4
	Minimum...	67	66	57	54	43	56	55	46	51	55	58	57	62	59	63	66	61	66	61	58	54	65	64	63	60	65	64	67	67	67	59.6
Long Valley/.....	Maximum...	81	89	81	68	67	80	75	75	82	66	80	83																			

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CLIMATOLOGICAL DATA

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NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX.

JULY 1944.

No. 7

GENERAL SUMMARY.

This month averaged the warmest of any July since 1935. While temperatures did not reach as high as in 1936, there were the most days with readings of 90° and higher ever recorded in the State. The number of such days at certain stations was: Long Branch, 9; Sussex and Tuckerton, 10; Trenton, Long Valley, Lambertville, Newark, and Phillipsburg, 16; Lakewood, Plainfield, and Moorestown, 17; Clayton, Bridgeton, Freehold, Hammonton, Indian Mills, and Paterson, 18; Belvidere and Burlington, 19; and Somerville, 21; Atlantic City on the coast, however, had only 2 such days. There were two distinct heat waves with more than the usual duration for this area, with a cooler period from about the 14th to 22d. At Trenton, however, there were only five days during the month cooler than normal.

With the exception of July, 1910, this was the driest July of record in New Jersey. Many stations had considerably less than an inch of rain and only a few had as much as 2.00 inches during the month. The only county with near adequate rainfall was Sussex. Rains were mostly in the form of thundershowers. By the middle of the month, drought conditions prevailed in most sections and by its close much crop deterioration had occurred and the potato crop of central New Jersey had been cut decidedly short. No destructive storms occurred outside of the usual damage by lightning.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 43 stations, was 75.6°, which was 1.8° above normal. The highest temperature was 101° at two stations on the 28th, and the lowest, 43°, at two stations on the 2d. The highest monthly mean temperature was 78.8° at Burlington, and the lowest, 71.1° at Charlotteburg.

The temperature departure from the normal for the year 1944 to date, for the State, is +1.1°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 61 stations, was 1.44 inches, which was 3.25 inches below normal. The greatest monthly precipitation was 3.89 inches at Culvers Lake, and the least, 0.22 inch at Long Branch. The greatest amount of precipitation in any 24 consecutive hours was 1.83 inches at Culvers Lake on the 13th.

The average for the Highlands was 2.17 inches; for the Red Sandstone Plain, 1.44 inches; for the Southern Interior, 1.14 inches; and for the Sea Coast, 1.09 inches.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: the Highlands, -2.68 inches; Red Sandstone Plain, -1.56 inches; Southern Interior, -2.75 inches; Sea Coast, -3.99 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 8, 9, 14, 15, 16, 20, 21.

THUNDERSTORMS: 4, 5, 11, 12, 13, 16, 17, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 31.

HAIL: 16, 24, 25.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.28	3	29.62	27	14.1	36	s.	12	83	76	82	80	0
Long Branch.....	30.28	3	29.56	27	10.3	36	n.	17	75	48	59	77	0
Trenton.....	30.08	3	29.59	27	8.1	24	sw.	12	74	43	52	79	0

COMPARATIVE DATA FOR JULY.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	75.2	100	44	3.50	0	.....	.....	.....	.....
1886.....	73.0	98	48	4.91	0	.....	.....	.....	.....
1887.....	77.1	102	54	7.67	0	11	.....	.....	.....
1888.....	71.1	95	45	8.50	0	9	.....	.....	.....
1889.....	78.4	95	48	10.19	0	14	.....	.....	.....
1890.....	72.5	101	39	5.62	0	9	12	11	8
1891.....	70.1	96	43	5.30	0	12	10	11	10
1892.....	74.8	105	44	4.03	0	8	12	14	5
1893.....	73.9	102	40	2.72	0	8	14	13	4
1894.....	75.7	106	44	1.66	0	6	14	12	5
1895.....	70.9	99	41	4.28	0	10	12	12	7
1896.....	75.0	98	47	5.50	0	13	13	10	8
1897.....	74.1	102	50	11.42	0	15	10	11	10
1898.....	75.3	107	38	4.96	0	10	11	13	7
1899.....	74.7	98	38	5.75	0	11	18	11	7
1900.....	75.9	104	42	4.74	0	11	15	12	4
1901.....	77.3	107	45	5.87	0	14	9	13	9
1902.....	73.0	100	43	4.78	0	18	10	12	9
1903.....	73.3	100	38	5.51	0	12	16	10	5
1904.....	72.8	98	42	4.87	0	13	18	10	8
1905.....	74.4	102	42	4.06	0	12	12	13	6
1906.....	72.8	94	46	5.58	0	12	11	14	6
1907.....	73.6	96	40	2.62	0	8	8	12	11
1908.....	75.6	106	42	4.70	0	9	12	13	6
1909.....	71.6	99	36	2.12	0	5	14	14	3
1910.....	75.3	99	42	1.36	0	5	12	12	7
1911.....	76.0	104	42	3.64	0	8	12	12	7
1912.....	73.7	100	36	3.86	0	9	14	10	7
1913.....	74.4	100	41	2.52	0	8	20	9	2
1914.....	71.5	97	40	6.05	0	15	9	11	11
1915.....	72.8	98	44	5.31	0	14	10	18	8
1916.....	74.4	97	45	5.40	0	12	11	9	11
1917.....	74.2	104	46	4.83	0	12	10	11	10
1918.....	72.2	104	39	8.93	0	8	17	9	6
1919.....	78.5	103	43	8.89	0	14	14	7	10
1920.....	71.7	96	42	5.76	0	11	17	10	4
1921.....	76.5	99	43	3.62	0	10	14	9	8
1922.....	73.0	98	44	5.79	0	13	13	9	9
1923.....	71.9	102	40	3.88	0	11	15	8	8
1924.....	71.6	98	41	2.59	0	6	19	8	4
1925.....	72.0	99	39	7.37	0	13	15	9	7
1926.....	73.0	105	40	5.46	0	12	16	7	8
1927.....	72.7	99	36	6.06	0	11	13	10	8
1928.....	74.2	96	41	6.86	0	12	16	8	7
1929.....	73.0	102	33	1.64	0	6	17	9	5
1930.....	74.3	105	42	3.98	0	10	16	9	6
1931.....	76.6	102	50	4.24	0	11	13	10	8
1932.....	73.8	98	41	2.76	0	8	19	8	4
1933.....	73.4	105	41	3.73	0	8	16	8	7
1934.....	75.8	100	43	3.65	0	9	16	9	6
1935.....	76.0	101	40	4.66	0	10	14	11	6
1936.....	74.6	110	40	2.47	0	8	17	8	6
1937.....	74.6	103	43	2.83	0	9	17	8	6
1938.....	74.7	98	43	8.84	0	16	11	10	10
1939.....	73.4	98	38	2.33	0	8	14	10	7
1940.....	78.9	104	40	2.73	0	9	15	9	7
1941.....	78.8	105	41	6.40	0	15	12	8	11
1942.....	74.6	105	41	7.30	0	12	13	10	8
1943.....	74.2	97	39	4.21	0	10	14	9	8
1944.....	75.6	101	48	1.44	0	6	17	10	4
Period.....	73.8	110	33	4.69	0	10	14	10	7

Climatological Data for July 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days					Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy	Prevailing direction of wind	
Atlantic City	Atlantic	8	71	73.3	+1.2	92	5	60	22	1.50	-2.43	0.78	27-28	0	6	14	11	6	s.	U. S. Weather Bureau.
Barneget City	Ocean	36	5	72.4		93	6	58	22	1.35		0.54	4	0	8					U. S. Coast Guard.
Belleplain	Cape May	49	50			95	7			1.24	-3.07	0.78	14	0	7	20	9	2	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	3							1.63				6					w.	City Water Dept.
Belvidere	Warren	289	52	76.8	+3.1	97	11	54	3	1.22	-3.32	0.34	4	0	7	23	6	2		Miss C. S. Hixson.
Berlin	Camden	70	3							0.45		0.25	13	0	3	22	7	2		Samuel H. McCulley.
Boonton	Morris	280	54	75.2	+3.0	95	8	50	18	1.98	-2.66	0.85	21	0	9	21	4	6	ne.	John Kline.
Bridgeton	Cumberland	30	61	77.6	+1.1	97	30	54	22	1.46	-2.99	0.95	14	0	5	22	6	3	se.	Bennett K. Matlack.
Brooklawn	Camden	30	3							0.73		0.40	13	0	3					C. D. Scott.
Burlington	Burlington	12	58	78.8	+2.9	99	23	53	20	1.63	-3.31	0.53	13	0	6	24	6	1	sw.	Public Service E. & G. Co.
Canoe Brook	Essex	180	14	75.4	+3.3	101	28	45	22	2.59	-1.85	0.83	20	0	9	18	12	1	sw.	N. J. Water Policy Comm.
Cape May	Cape May	17	56	73.7	+0.3	92	6	61	22	1.29	-2.49	0.78	27-28	0	9	13	11	7	sw.	Naval Air Station.
Charlotteburg	Passaic	760	52	71.1	+0.7	92	7	43	21	1.93	-2.65	0.38	16	0	6	19	5	7	w.	Newark Water Dept.
Chatham	Morris	185	40							1.59	-3.35	0.63	28	0	8	14	16	1		Edward P. Molitor.
Chatsworth	Burlington	90	4	76.4		98	11	45	22	2.20		1.80	27-28	0	2	17	12	2	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	31	77.0	+1.8	96	6	52	22	1.00	-3.56	0.32	20	0	4	18	7	6	w.	Worthy Hitt.
Clinton	Hunterdon	300	1							0.73		0.26	13	0	9	14	15	2	sw.	L. W. Klockner.
Culvers Lake	Sussex	760	43							3.89	-0.79	1.83	13	0	7					L. S. Depue.
Dover	Morris	600	60	73.7	+2.1	93	11	49	22	1.69	-3.52	0.54	12-13	0	7	13	11	7		William C. Harris.
Egg Harbor City	Atlantic	63	22																	Chas. E. Hall.
Elizabeth	Union	34	65	77.7	+2.4	98	8	51	22	2.14	-2.58	0.79	20-21	0	9	18	5	8	sw.	Union County Park Comm.
Flemington	Hunterdon	140	58	77.8	+2.9	101	28	51	22	0.86	-3.99	0.32	21	0	8	22	7	2	w.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120		76.8		96	30	52	22	0.96		0.45	13	0	6	9	13	9	sw.	A. A. B. Weather Station.
Freehold	Monmouth	194	40	75.9	+1.2	96	30	50	22	0.44	-4.33	0.23	24	0	6	20	9	2	w.	Moreau Plant Co.
Hammononton	Atlantic	95	38	77.4	+1.5	98	7	50	22	1.32	-3.22	0.65	14	0	6	19	9	3	w.	J. G. Wilson.
Hightstown	Mercer	110	51	75.9	+1.7	95	7	51	22	0.45	-4.47	0.16	16	0	6	18	12	1	sw.	James R. Pickering.
Indian Mills	Burlington	100	55	76.2	+1.6	98	6	44	22	1.67	-3.08	1.04	27-28	0	8	11	15	2	sw.	Edward Entwistle.
Jersey City	Hudson	81	46	75.8	+3.1	93	6	60	22	2.96	-1.39	1.20	29	0	5	22	6	3	se.	J. C. Water Dept.
Lakewood	Ocean	54	40	76.2	+2.7	96	28	51	22	1.48	-3.52	0.53	29	0	7	11	15	5	sw.	R. W. Holman.
Lambertville	Hunterdon	75	57	76.0	+1.9	96	28	54	18	0.59	-4.05	0.26	5	0	3	17	6	8	sw.	Mabel Wollaston.
Layton	Sussex	480	43	72.0	+0.8	94	11	46	22	2.97	-1.53	0.63	13	0	9	17	8	6	sw.	A. M. Depue.
Little Falls	Passaic	157	41	75.6	+1.6	95	8	50	22	1.07	-3.65	0.37	28	0	7	15	16	0	sw.	Passaic Valley Water Co.
Loug Branch	Monmouth	34	36	75.6	+2.7	95	30	53	22	0.22	-5.63	0.09	16	0	4	14	12	5	sw.	Storm Warn. Display Sta.
Long Valley	Morris	660	14	71.6	+0.1	95	8	43	22	0.61	-4.70	0.50	21	0	5	17	14	0	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	3							0.98		0.32	28	0	8	17	12	2	sw.	David Grisco.
Millville	Cumberland	60	4							1.06		0.52	14	0	6	22	8	1		Paul Ritchie.
Moorestown	Burlington	62	81	76.3	+1.5	96	7	51	22	1.45	-3.25	0.45	17	0	6	22	6	3	sw.	Japanese Beetle Laboratory
Morris Plains	Morris	500	3							1.47		0.68	20	0	6	22	7	2		James C. Long.
Newark	Essex	10	90	77.8	+3.1	98	8	56	22	2.43	-2.52	1.18	27-28	0	9	11	15	5	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	90	76.5	+2.4	96	28	51	22	0.68	-4.55	0.48	16	0	7	20	8	3	sw.	N. J. Experiment Station.
New Milford	Bergen	12	26							0.67	-3.86	0.34	30	0	8					Hackensack Water Co.
Newton	Sussex	769	61	74.2	+1.6	93	7	50	22	2.70	-2.13	0.94	13	0	10	21	6	4	sw.	Irving J. Kern.
Orange	Essex	140	4							2.16		1.02	16-17	0	8					County Engineer.
Paterson	Passaic	95	73	76.2	+1.6	95	9	52	22	1.10	-3.20	0.47	29	0	9	18	12	1	sw.	J. W. Cook.
Pemberton	Burlington	55	15	77.4	+1.5	95	7	51	22	0.89	-3.37	0.41	27	0	7	21	7	3	se.	Charles A. Doehrlert.
Phillipsburg	Warren	182	56	74.4	+0.5	95	12	49	22	1.00	-3.48	0.39	4	0	6	12	17	2		Town Engineer.
Plainfield	Union	120	56	76.8	+2.9	96	7	51	22	1.72	-3.83	0.62	20	0	8	14	15	2	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	3							0.27		0.21	16	0	2					Walker-Gordon Lab.
Pleasantville	Atlantic	8	46	73.8	+0.2	93	6	47	22	3.54	-0.52	1.28	27-28	0	6	16	9	6	s.	N. J. Water Policy Comm.
Rahway	Union	20	5							1.48		0.95	20	0	5	17	12	2	sw.	Louis Foutenelli.
Ridgefield	Bergen	80	27	76.6	+1.9	96	8	51	22	1.69	-3.12	0.72	16	0	8	11	18	2	sw.	George P. Kirsten.
Runyon	Middlesex	18	21	72.8	-0.2	96	28	44	22	0.73	-3.41	0.65	16	0	2					N. J. Water Policy Comm.
Sandy Hook	Monmouth	15	46	76.5	+3.0	92	6	42	22	0.54	-4.58	0.52	16	0	2					U. S. Coast Guard.
Somerville	Somerset	385	61	76.4	+2.4	98	27	50	22	1.42	-3.82	0.53	21	0	5	19	10	2	w.	Norbert Larky.
Sussex	Sussex	450	49	73.4	+1.1	94	11	49	3	3.54	-0.28	1.55	13	0	8	10	11	10	w.	Marshall Hunt.
Toms River	Ocean	33	23							1.38	-4.17	0.48	28	0	6					Robt. F. Snyder.
Trenton	Mercer	56	72	77.8	+3.3	95	7	58	22	0.37	-3.57	0.13	16	0	5	11	15	5	sw.	U. S. Weather Bureau.
Trenton No. 2	do.	105	14	77.6		96	28	55	22	0.46		0.16	16	0	7					Edward H. Ristow.
Tuckerton	Ocean	23	51	76.0	+1.8	97	6	50	2	1.34	-2.64	0.75	28	0	7	22	4	5	sw.	John H. Brown.
Vineland	Cumberland	110	64							2.06	-2.47	1.05	27	0	8	19	10	2	sw.	Robert Jones.
Westfield	Union	145	5							2.22		1.20	28	0	6	19	7	5	sw.	Town Engineer.
Woodcliff Lake	Bergen	103	26							0.87	-3.06	0.46	30	0	7					Hackensack Water Co.
Woodstown	Salem	16	9							1.10		0.40	13	0	5	22	7	2	s.	Geo. S. Keen.
New York, N. Y.		10	74	77.2	+3.4	92	8	60	22	2.20	-2.04	0.93	20-21	0	9	12	14	5	s.	U. S. Weather Bureau.
Philadelphia, Pa.		10	74	78.4	+3.1	97	7	56	22	1.05	-3.10	0.61	13-14	0	7	9	14	8	sw.	U. S. Weather Bureau.
For the State				75.6	+1.8	101	28	43	2	1.44	-3.25	1.83	13	0	6	17	10	4	sw.	

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used.

†Received too late to be included in the means.

T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also.

§Length of precipitation record; temperature record is much shorter.

*Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for July 1944

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast													.04	.61		T.				T.	.05							.52	.26	T.	.02		1.50
Barnegat City ⁴	do.				.54									.01	.22		.31				T.	.07			.07		.08		.10	.02	T.		1.35	
Relleplain	Tuckahoe													.03	.78	.08					.07	.06							.15		.07		1.24	
Belmar ²	Coast											.02		.10	T.		1.16				.16		T.			T.	T.		.12		.07		1.63	
Belvidere	Delaware				.34									.22			.29				.16								.11		T.	.01	.09	1.22
Berlin	Mullica				.10									.25															.10				0.45	
Boonton ³	Passaic					.25								.27				.04			.01	.85				.10			.36		.08	.02	1.98	
Bridgeton	Delaware													.04	.95						.11	.03							.33				1.46	
Brooklawn	do.				.05									.40	T.						T.								.28				0.73	
Burlington	do.					.04								.53	T.		.46				.11					.07		.42					1.63	
Canoe Brook ³	Passaic				.15							.09		.04			.31				.01	.83							.77	.35	.04		2.59	
Cape May ^{2†}	Coast													.23		.26	.12	.04			.01	.04			T.	T.		.45	.33	.01	.03		1.29	
Charlotteburg	Passaic				T.	.17								T.			.38				T.						.17						1.93	
Chatham ³	do.					.14							.05	.06			.10				T.	.39							.63	.10	.12		1.59	
Chatsworth	Coast														.40																		2.20	
Clayton	Delaware				.29									.20	.19						.32									1.80			1.00	
Clinton	Raritan				.13	.11								.26			.03				.04	.03					.01		.06			T.	.06	0.73
Culvers Lake	do.				.21	.51								1.83			.62					.60				.05		.07			T.		3.89	
Dover	Passaic				.18									.54			.25				.39	.03				.20		.10					1.69	
Elizabeth	Coast				.03	.10								.15			.32			T.	.06	.79				T.		.04	.60	T.	T.	.05	2.14	
Flemington	Raritan					.12	.12							.14			T.	.02			.01	.32							.03		.10	T.		0.86
Fort Dix, A.A.B. ²	Delaware				.01									.45	.02		.10				T.	.02			T.				.36				0.96	
Freehold	Raritan				T.									.05	T.		.04	.07			.01	.04					.23						0.44	
Hammonton	Mullica					.03								.06	.65						.03						.10			.45			1.32	
Hightstown	Raritan				T.									.05			.16	.05			.04	.01					.14		T.				0.45	
Indian Mills	Mullica					.04								.16	.10		.04				.07	.05				.17			1.04		T.		1.67	
Jersey City ²	Coast				.02												.51				.43	T.						.80	T.	1.20			2.96	
Lakewood	Metedeconk													.30	.10		.36				T.	.15				.02			.02	.53			1.48	
Lambertville	Delaware					.26											T.				T.				T.					.22	.11		0.59	
Layton	do.				.59	.02								.63			.58				.34					.34		.29				.03	2.97	
Little Falls ³	Passaic					.22								.05				.05			T.	.22					.09			.37	.07	T.		1.07
Long Branch ^{2†}	Coast				T.									.04			.09				.06									.03			0.22	
Long Valley ³	Raritan					.13								.28							.30				T.					.13			0.61	
Marlton	Delaware					.01								.29	.08		.05				.05	.05			.02				.32		.13		0.98	
Millville ^{2†}	Maurice													.52								.02	.04						.36	.06			1.06	
Moorestown ³	Delaware				T.	.01									.35			.45				.04	.10						.10				1.40	
Morris Plains	Passaic				T.	.13								.13				.03				.68				.08		T.	.42		T.		1.47	
Newark ¹	Coast				.21									.12			.55				.32	.01					T.		.53	.65	T.	.03		2.43
New Brunswick	Raritan													.04	T.		.44	.04			.02	.04								.08			0.68	
New Milford ^{2†}	Hackensack					.04								.03	T.		.19				.02	.14									.34	.06	0.67	
Newton	Delaware				.20	.21								.94	T.		.19				.81	.08				.20	.01	.05		.01			2.70	
Orange ^{2†}	Passaic				.09									.02				1.02			.56	.01						.45		.01			2.16	
Paterston ²	do.				.06									.09			.01				.18	.02				.02		.15		.47	.10		1.10	
Pemberton	Delaware					.05								.24	.13		.07	.02			.08	.04							.01	.40			0.89	
Phillipsburg	do.				T.	.39								.25			.07			T.	.08	.06				T.	T.		.15		T.	T.	1.00	
Plainfield	Raritan				.07									.11			.41				.62	.10			T.	T.		.03	.11	.27			1.72	
Plainsboro	do.													.06			.21																0.27	
Pleasantville ³	Coast				1.10									.11	.68	.34					T.	.06	T.						1.28		.08		3.54	
Rahway ^{2†}	Rahway				.08									.24							.95											.10		1.48
Ridgefield	Hackensack				.08	T.								.08			.72				.04	.22						.01		.31		T.	.23	1.69
Runyon	Coast													.08			.65																0.73	
Sandy Hook ^{2†}	Coast				T.									T.			.52				.02				T.	T.	T.				T.	T.	0.54	
Somerville	Raritan													.22			.28				T.	.53							T.	.02		.37		1.42
Sussex	Hudson				.64	.06								1.55			.45				.10	.64					.05		.05			T.	3.54	
Toms River	Coast													.13		.18	.34					.07							.48	.18			1.38	
Trenton ^{1†}	Delaware				.07									T.			.13				.06	.01			.10	T.	T.		T.		T.		0.37	
Trenton No. 2 ²	do.				.11									.03			.16				.06	.03							.03				0.46	
Tuckerton	Coast													.05	.35	.06	.05				.06					.02			.75				1.34	
Vineyard	Maurice				.02									.08		.54	.20	.10				.04				T.						.07		2.06
Westfield ^{3†}	Rahway					.10								.08							.43												2.22	
Woodcliff Lake ^{3†}	Hackensack				.04									.01	.18						.11									.02		.46	.05	0.87
Woodstown	Delaware				.10									.40							.10	.20							.30				1.10	
New York, N. Y. ^{1†}	Coast		</																															

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight.

³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

⁴ Precipitation is from 1:30 a. m. to 1:30 a. m. [†] Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

Amounts in italics are interpolated.

Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

Canoe Brook ³	Evaporation	.224	.144
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Daily Temperatures for July 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	75	79	73	76	92	92	84	81	80	79	80	76	78	71	74	78	77	77	77	79	81	76	84	78	78	82	80	81	75	80	80	79.1
	Minimum...	65	62	65	63	67	71	72	73	72	70	70	68	67	66	67	69	67	64	68	70	66	60	69	68	67	70	68	67	68	67	66	67.5
Barnegat City†.....	Maximum...	80	80	77	81	90	93	90	88	83	80	78	80	77	74	77	77	78	82	76	77	80	80	85	77	75	80	83	83	75	85	82	80.7
	Minimum...	66	63	65	60	62	70	69	71	67	66	69	62	62	61	63	64	64	65	65	68	62	58	65	64	64	63	62	62	60	61	60	64.0
Belleplain.....	Maximum...	85	85	83	82	90	94	95	92	90	91	92	92	89	84	79	87	89	86	79	86	81	85	89	92	95	95	95	94	92	95	92	88.9
	Minimum...	77	77	77	77	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88.9
Belvidere.....	Maximum...	87	86	88	86	92	93	96	95	96	95	97	95	88	89	92	91	85	87	83	85	80	89	92	95	93	93	94	95	91	94	95	90.9
	Minimum...	56	57	54	60	56	60	65	64	66	67	68	73	71	60	62	68	57	55	60	65	62	59	55	58	65	68	70	64	68	61	68	62.6
Boonton.....	Maximum...	85	85	85	85	90	91	95	92	90	90	93	93	87	86	88	86	85	86	82	84	78	86	89	90	90	90	91	91	89	91	90	88.2
	Minimum...	57	54	51	56	57	62	59	60	63	65	66	69	71	63	57	65	59	50	52	59	64	51	56	57	63	58	63	67	64	61	66	62.2
Bridgeton.....	Maximum...	85	86	84	84	92	95	95	91	90	91	92	95	89	78	83	88	87	86	81	85	82	87	92	95	94	93	95	93	90	97	94	89.3
	Minimum...	62	57	58	60	61	64	65	67	68	69	71	74	73	70	64	71	67	60	61	65	65	54	62	65	73	68	74	68	73	66	70	66.0
Burlington.....	Maximum...	87	84	85	86	92	96	96	95	93	92	96	94	93	84	90	86	87	89	86	87	84	99	90	93	94	92	94	91	95	93	90	90.6
	Minimum...	61	62	70	71	62	64	70	65	69	68	69	73	70	69	64	67	64	74	65	53	65	62	64	64	75	66	73	67	71	69	72	67.0
Cauoe Brook.....	Maximum...	74	91	90	90	94	100	99	90	99	100	97	97	94	90	94	84	91	91	89	90	82	90	87	99	95	100	98	101	93	100	99	93.2
	Minimum...	48	48	48	53	50	53	56	61	65	62	64	71	69	58	55	64	53	47	48	59	62	45	51	57	64	55	67	60	64	60	65	57.5
Cape May*.....	Maximum...	79	84	74	74	89	92	84	78	79	77	78	78	82	72	77	78	81	80	76	78	80	81	85	76	86	80	88	78	81	81	80.2	
	Minimum...	64	62	63	65	66	70	71	70	68	69	71	70	69	68	68	68	68	68	68	68	66	61	68	67	69	69	67	67	62	64	68	67.2
Charlotteburg.....	Maximum...	83	80	79	78	89	88	92	92	91	92	91	91	91	90	87	86	85	82	82	80	80	83	86	89	89	90	91	90	90	90	90	87.0
	Minimum...	50	43	45	59	53	56	52	54	58	63	65	69	67	53	50	56	55	43	46	56	59	44	50	50	67	52	55	57	59	55	59	55.2
Chatsworth.....	Maximum...	84	86	87	89	92	95	96	97	95	95	98	95	87	82	85	91	85	84	82	87	82	87	92	96	97	97	98	95	90	96	92	90.8
	Minimum...	57	55	56	62	66	65	63	60	61	61	62	70	70	64	59	63	62	56	54	61	67	45	65	55	67	65	71	66	68	71	68	62.1
Clayton.....	Maximum...	92	88	82	93	92	96	92	93	94	95	94	95	91	82	84	91	89	95	82	86	84	81	87	81	81	77	85	89	90	94	88	88.5
	Minimum...	61	55	71	67	59	62	64	63	64	64	67	73	70	68	62	64	65	69	56	63	64	52	76	73	69	72	62	62	75	65	65	65.5
Dover.....	Maximum...	82	82	82	84	88	90	91	92	89	89	93	91	85	84	86	88	82	81	80	80	79	83	87	90	88	90	91	88	90	88	90	86.6
	Minimum...	62	54	51	58	56	59	59	61	63	67	69	72	69	59	58	66	56	51	53	62	57	49	67	58	66	57	68	63	65	61	68	60.8
Elizabeth.....	Maximum...	88	87	84	88	90	95	93	95	95	95	96	96	92	85	86	91	88	85	82	84	82	89	93	95	94	94	96	97	93	95	92	90.9
	Minimum...	61	56	55	56	55	56	63	75	67	67	69	72	73	73	73	70	55	61	63	64	51	58	59	67	73	74	66	67	65	66	64.5	
Flemington.....	Maximum...	86	86	87	88	94	93	99	97	95	95	96	96	90	88	91	92	86	91	84	87	81	91	93	94	95	97	96	101	95	99	95	92.2
	Minimum...	61	56	56	61	59	63	65	65	64	65	69	71	72	69	62	68	62	57	57	63	65	51	59	60	67	61	69	66	67	64	74	63.5
Fort Dix, A. A. B.*.....	Maximum...	83	85	82	85	90	94	95	95	93	92	94	95	81	82	86	90	85	85	82	85	80	86	91	94	94	94	94	93	90	96	92	89.1
	Minimum...	60	58	56	58	62	67	64	65	67	68	69	72	71	66	64	66	63	60	55	61	64	52	64	65	62	64	69	67	70	69	72	64.5
Freehold.....	Maximum...	84	84	82	86	90	92	93	94	92	95	93	89	84	86	90	85	84	80	84	83	88	91	93	94	94	94	94	94	93	96	92	89.4
	Minimum...	56	56	53	56	58	63	62	64	65	65	65	71	70	66	59	65	59	55	56	61	64	50	62	60	65	62	73	66	69	68	69	62.4
Hammononton.....	Maximum...	86	86	83	88	93	97	98	95	94	96	96	88	80	85	91	88	86	86	86	83	88	92	96	96	98	97	95	90	98	95	91	91.1
	Minimum...	59	54	54	62	57	62	64	64	66	66	67	73	72	68	62	67	64	58	56	63	64	50	62	63	67	65	74	66	71	66	71	63.8
Hightstown.....	Maximum...	83	83	81	85	89	92	95	93	91	91	94	95	85	83	88	89	85	85	83	85	81	87	91	92	92	93	93	95	92	95	95	89.0
	Minimum...	58	56	55	58	59	61	62	62	66	67	72	71	66	59	67	59	54	56	63	63	51	60	63	65	60	73	66	69	69	70	62	62.8
Indian Mills.....	Maximum...	88	90	87	86	94	98	97	95	93	92	95	94	83	83	86	91	89	89	81	85	80	89	92	93	95	94	95	93	88	95	92	90.4
	Minimum...	56	50	53	55	57	60	63	60	64	66	66	73	72	67	68	63	64	52	62	64	44	61	63	71	60	74	65	71	67	68	62.1	
Jersey City*.....	Maximum...	82	80	80	82	91	93	84	91	90	84	88	92	87	80	80	82	80	74	77	77	84	88	90	89	81	86	88	82	86	84	84.3	
	Minimum...	62	64	61	63	63	71	68	69	70	72	73	72	67	66	68	68	61	62	67	61	60	65	69	72	68	72	70	72	69	71	67	67.2
Lakewood.....	Maximum...	91	85	86	85	91	94	91	95	94	93	93	86	80	82	89	85	83	80	83	80	86	90	93	95	90	94	96	86	95	92	88.9	
	Minimum...	59	55	58	55	56	64	62	62	68	68	69	73	70	66	62	66	61	56	55	63	66	51	61	64	71	62	74	68	67	67	70	63.5
Lambertville.....	Maximum...	85	85	85	84	89	92	93	92	91	91	92	92	89	86	88	87	86	82	80	85	80	85	91	92	94	94	96	91	94	92	88.8	
	Minimum...	57	58	55	60	58	61	64	70	65	62	61	68	71	66	63	69	60	54	56	62	64	57	59	60	68	59	71	61	70	66	69	63.1
Layton.....	Maximum...	84	84	84	83	89	89	91	92	90	90	94	92	85	82	87	88	81	82	78	80	75	84	88	90	84	88	87	92	86	89	88	86.3
	Minimum...	49	51	48	57	55	55	58	55	58	60	62	71	68	54	60	51	65	50	52	61	59	46	50	55	62	55	67	62	63	58	65	57.8
Little Falls.....	Maximum...	85	85	84	86	91	92	94	95	92	93	94	94	89	86	86	85	86	80	84	80	88	91	93	92	93	91	92	91	91	93	91	89.3
	Minimum...	57	55</																														

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX.

AUGUST 1944.

No. 8

GENERAL SUMMARY.

August was the fourth successive month with temperature average decidedly above normal. In fact, all months this year have been warmer than normal except March and April. Several Augusts in past years have been warmer than this one, but the two months period, July-August, this year averaged higher than in any previous year of record in New Jersey. There was also the greatest number of days with temperatures in the nineties ever recorded in this State. At Trenton, there were 16 such days in July and 10 in August, and for the entire summer to September 5, there have been 32 such days compared with the normal number of 14. Heat was severe from August 4th to 17th except for some abatement from 6th to 9th.

The heaviest rainfall in August occurred on the 2-3d when good rains fell in south and central New Jersey. In the extreme north, the most beneficial rains fell about the middle of the month. Rainfall was greatly deficient, however, as in July and May this year while June had slightly more than normal. The two months period, July-August, this year was the driest of record in New Jersey with only 45 percent of the normal amount for the two months. Also, the four months, May-August, this year had only 59 percent of normal rainfall resulting in a generally poor crop year, though certain crops did well in some sections. By the end of August, drought conditions were very serious in some localities with wells and streams going dry. The driest areas appear to have been in Hunterdon County and the south part of Morris County. Flemington had only 1.58 and Long Valley 2.27 inches during July and August.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 42 stations, was 73.9°, which was 1.9° above normal. The highest temperature was 104° at Canoe Brook on the 5th, and the lowest, 35°, at Charlotteburg on the 26th. The highest monthly mean temperature was 77.4° at Elizabeth, and the lowest, 70.4° at Layton.

The temperature departure from the normal for the year 1944 to date, for the State, is +1.2°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 63 stations, was 2.79 inches, which was 1.96 inches below normal. The greatest monthly precipitation was 6.37 inches at Layton, and the least, 0.72 inch at Flemington. The greatest amount of precipitation in any 24 consecutive hours was 4.27 inches at Chatsworth on the 2-3d.

The average for the Highlands was 2.91 inches; for the Red Sandstone Plain, 2.16 inches; for the Southern Interior, 3.31 inches; and for the Sea Coast, 3.08 inches.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: the Highlands, -4.24 inches; Red Sandstone Plain, -4.17 inches; Southern Interior, -4.44 inches; Sea Coast, -5.71 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 1, 2, 3, 4.
THUNDERSTORMS: 5, 6, 12, 13, 14, 15, 16, 17, 18, 22, 26.
HAIL: 26.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind			Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.38	20	29.63	18	14.6	36	e.	2	83	70	77	12
Long Branch.....	30.36	20	29.60	18	11.4	30	n.	16	80	49	63	7
Trenton.....	30.17	20	29.62	18	8.5	24	n.	24	62	46	58	1

† Also on the 27th.

COMPARATIVE DATA FOR AUGUST.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	71.7	95	40	6.11	0	.....	.....	.....	.....
1886.....	69.5	96	42	2.81	0	.....	.....	.....	.....
1887.....	70.4	94	42	3.76	0	.....	.....	.....	.....
1888.....	72.5	98	41	6.13	0	.....	.....	.....	.....
1889.....	69.6	91	45	5.13	0	.....	.....	.....	.....
1890.....	71.5	99	40	4.90	0	11	8	15	8
1891.....	72.8	100	46	5.32	0	13	8	11	12
1892.....	73.4	99	46	3.63	0	9	12	13	6
1893.....	72.8	98	38	6.52	0	8	14	11	6
1894.....	70.9	97	44	2.58	0	7	13	12	6
1895.....	74.2	102	34	2.53	0	7	16	12	3
1896.....	73.6	105	39	1.83	0	7	17	10	4
1897.....	71.0	91	41	4.39	0	9	14	12	5
1898.....	74.8	98	42	5.36	0	10	12	12	7
1899.....	72.3	99	39	4.36	0	9	10	12	9
1900.....	76.3	104	41	2.68	0	10	15	11	5
1901.....	78.8	98	44	9.43	0	11	12	10	9
1902.....	70.1	93	40	3.91	0	9	15	13	3
1903.....	68.4	98	39	6.95	0	13	10	10	11
1904.....	70.8	92	37	6.62	0	9	15	10	6
1905.....	71.1	95	38	5.72	0	12	13	10	8
1906.....	74.6	97	42	5.95	0	13	10	11	10
1907.....	70.5	96	39	3.45	0	10	14	12	5
1908.....	70.6	103	36	5.05	0	10	11	10	10
1909.....	70.2	100	34	4.59	0	6	14	9	8
1910.....	70.4	92	36	3.78	0	10	9	10	12
1911.....	72.1	101	39	8.91	0	11	10	11	10
1912.....	70.0	95	35	3.42	0	10	12	13	6
1913.....	71.7	100	38	4.06	0	10	18	9	4
1914.....	73.3	98	46	3.15	0	9	13	12	6
1915.....	70.9	98	41	7.73	0	13	11	11	9
1916.....	73.2	100	40	1.34	0	6	20	7	4
1917.....	74.0	103	42	2.21	0	8	18	9	4
1918.....	74.4	108	40	1.85	0	7	18	7	6
1919.....	69.9	98	38	6.89	0	13	13	10	8
1920.....	72.3	94	42	6.10	0	17	8	11	12
1921.....	69.8	97	38	4.32	0	9	18	7	6
1922.....	71.2	96	39	4.03	0	12	13	9	9
1923.....	70.8	98	35	2.44	0	8	17	8	6
1924.....	71.9	102	38	4.40	0	8	18	8	5
1925.....	71.0	93	35	2.10	0	7	20	6	5
1926.....	72.8	101	38	6.58	0	14	11	9	11
1927.....	67.1	89	37	8.55	0	12	11	9	11
1928.....	74.5	99	45	6.72	0	13	12	8	11
1929.....	69.8	97	39	2.58	0	9	16	8	7
1930.....	71.1	101	34	3.32	0	6	16	9	6
1931.....	73.5	101	45	5.10	0	12	12	8	11
1932.....	73.5	99	44	2.75	0	7	20	7	4
1933.....	72.7	101	45	10.63	0	14	12	9	10
1934.....	69.8	100	33	3.61	0	10	14	8	7
1935.....	72.4	98	36	2.57	0	8	14	10	7
1936.....	74.2	101	44	4.14	0	10	14	7	10
1937.....	75.2	100	45	6.82	0	14	14	7	10
1938.....	75.4	100	41	3.09	0	8	18	8	5
1939.....	75.3	98	50	7.03	0	11	11	9	11
1940.....	69.4	95	32	5.96	0	12	10	9	12
1941.....	71.0	97	34	1.06	0	9	20	7	4
1942.....	71.3	98	35	8.24	0	11	13	8	10
1943.....	73.2	99	39	2.16	0	6	18	8	5
1944.....	73.9	104	35	2.79	0	6	17	8	6
Period.....	72.0	108	32	4.75	0	10	13	10	8

Climatological Data for August 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, 0.1 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	71	72.9	+0.4	94	5	55	25	2.91	-1.58	2.40	2-3	0	5	17	6	8	s.	U. S. Weather Bureau.
Barnegat City	Ocean	36	5	72.8		95	11	55	26†	1.23		1.05	2-3	0	4				s.	U. S. Coast Guard.
Belleplain	Cape May	49	50			97	4†			3.77	-0.83	2.32	2	0	7	21	8	2	s.	Mrs. Edward C. Hoffmau.
Belmar	Monmouth	19	3							4.60		2.85	2	0	8				w.	City Water Dept.
Belvidere	Warren	289	52	74.6	+3.3	101	5	43	26†	3.13	-1.44	1.23	7	0	6	21	7	3		Miss C. S. Hixson.
Berlin	Camden	70	3							3.20		3.00	2	0	2	19	7	5		Samuel H. McCulley.
Boonton	Morris	280	54	73.2	+2.7	99	4	43	27†	3.10	+1.59	1.45	6-7	0	7	20	4	7	ne.	John Kline.
Bridgeton	Cumberland	30	61	75.6	+0.9	95	4†	49	25	3.69	-0.98	1.96	2	0	5	20	7	4	sw.	Bennett K. Matlack.
Brooklaw	Camden	30	3							2.49		2.49	2-3	0	2					C. D. Scott.
Burlington	Burlington	12	58	76.8		98	4†	49	28	2.13	-3.65	1.94	2-3	0	4	18	8	5	sw.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	14	74.9	+4.2	104	5	37	26	2.75	-2.90	1.25	6	0	7	22	5	4	sw.	N. J. Water Policy Comm.
Cape May	Cape May	17	56	72.9	-0.5	93	4†	56	26†	1.71	-2.55	1.67	2	0	5	15	8	8	sw.	Naval Air Station.
Charlotteburg††	Passaic	760	52	70.8	-2.5	97	5†	35	26	2.46	-2.04	0.76	6	0	9	14	8	9	w.	Newark Water Dept.
Chatham	Morris	185	40							2.82	-1.83	1.36	7	0	8	14	14	3		Edward P. Molitor.
Chatsworth	Burlington	90	4	75.1		97	1†	42	28	4.27		4.27	2-3	0	2	20	5	6	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	31	75.2	-1.9	97	5	43	25	3.52	-1.30	2.90	2-3	0	3	16	7	8	w.	Worthy Hitt.
Clinton	Hunterdon	300	1							1.17		0.38	2-3	0	7	14	9	8	sw.	L. W. Klockner.
Culvers Lake††	Sussex	760	43							3.33	-1.32	2.20	7	0	8					L. S. Depue.
Dover	Morris	600	60	72.8	+3.5	98	12	42	27	1.34	-3.16	0.75	2-3	0	7	13	13	5		William C. Harris.
Elizabeth	Union	34	65	77.4	+4.0	101	4†	53	26	2.53	-1.80	0.97	2-3	0	8	20	7	4	sw.	Union County Park Comm.
Flemington	Hunterdon	140	58	76.8	+4.0	103	11	44	27	0.72	-3.80	0.48	2-3	0	5	20	6	5	sw.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120		74.5		97	4†	47	28	3.73		2.95	2	0	5	8	15	8	sw.	A. A. B. Weather Station.
Freehold	Monmouth	194	40	74.1	+1.1	98	5	45	26	3.21	-1.42	2.71	2-3	0	6	21	7	3	sw.	Moreau Plant Co.
Hammononton	Atlantic	95	58	74.4	+0.2	98	4†	44	28	4.52	-0.36	4.03	2	0	4	18	6	7	sw.	J. G. Wilson.
Hightstown	Mercer	110	51	74.3	+2.1	97	4†	42	27	2.16	-2.86	1.89	2-3	0	6	18	10	3	sw.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington	100	55	74.0	+1.4	99	5	39	26†	3.25	-2.28	3.01	2-3	0	4	15	12	4	sw.	Edward Entwistle.
Jersey City	Hudson	81	46	75.6	+1.6	97	11	52	25†	2.03	-2.30	1.25	16	0	5	18	7	6	se.	J. C. Water Dept.
Lakewood	Ocean	54	40	74.6	+3.1	96	5†	46	25	4.02	-1.17	3.75	2-3	0	6	15	8	8	sw.	R. W. Holman.
Lambertville	Hunterdon	75	57	75.6	+3.3	99	4	44	26	1.23	-3.57	0.86	2-3	0	6	16	9	6	sw.	Mabel Wollaston
Layton††, 3 miles NW.	Sussex	480	43	70.4	+1.7	97	4†	40	26	6.37	+2.28	2.95	15	0	11	16	6	9	sw.	A. M. Depue.
Little Falls	Passaic	157	41	74.5	+2.4	100	12	44	26†	3.41	-1.55	1.38	15-16	0	9	18	12	1	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	36	74.8	+3.3	99	11	49	26	4.61	-0.87	2.61	2	0	8	17	7	7	sw.	Storm Warn. Display Sta.
Loug Valley	Morris	660	14	70.6	+1.1	99	5†	36	27	1.21	-4.13	0.43	16	0	6	13	16	2	sw.	Arthur Barkman.
Mays Landing	Atlantic	50	0							4.18		3.42	2	0	6					Elmer Earle.
Marlton, 1 mile W.	Burlington	90	3							2.93		2.83	2-3	0	4	19	5	7	sw.	David Grice.
Millville	Cumberland	60	4							4.21		3.77	2	0	5	22	5	4		Paul Ritchie.
Moorestown	Burlington	62	81	74.2	+1.5	96	4†	45	20†	2.91	-2.46	2.51	2	0	5	16	7	8	sw.	Japanese Beetle Laboratory
Morris Plains	Morris	500	3							1.60		0.74	2	0	6	21	7	3		James C. Long.
Newark	Essex	10	90	76.2	+3.2	102	5†	53	26	2.29	-2.26	0.86	16	0	7	12	10	9	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	90	75.4	+3.2	97	4†	47	27	2.30	-3.10	1.69	2-3	0	6	18	7	6	sw.	N. J. Experiment Station.
New Milford††	Bergen	12	26							2.95	-1.41	1.54	17	0	8					Hackenack Water Co.
Newton	Sussex	769	61	72.8	+2.4	98	4†	44	26	3.44	-0.91	1.05	16†	0	15	12	16	3	sw.	Irving J. Keru.
Orange††	Essex	140	4							1.88		0.53	17	0						County Engineer.
Paterson	Passaic	95	73	75.1	+2.9	100	13	47	27	2.27	-2.36	1.11	17	0	8	15	11	5	sw.	J. W. Cook.
Pemberton	Burlington	55	15	75.8	+1.4	97	4†	46	26†	3.23	-1.99	3.16	2-3	0	4	21	2	8	sw.	Charles A. Doehlert.
Phillipsburg	Warren	182	561	73.1	+1.3	99	12†	42	27	1.86	-2.54	0.78	7-8	0	9	16	10	5		Town Engineer.
Plainfield	Union	120	56	75.2	+3.4	100	5†	46	27	2.86	-2.24	1.45	2-3	0	8	13	10	8	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	3							2.40		1.61	2-3	0	6					Walker-Gordon Lab.
Pleasantville††	Atlantic	8	46	73.0	+0.8	98	6	42	26	3.63	-1.03	3.27	2-3	0	6	18	7	6	s.	N. J. Water Policy Comm.
Rahway	Union	20	5							2.33		1.50	2-3	0	6	16	11	4	nw.	Louis Fouteuelli.
Ridgefield	Bergen	80	27	75.1	+3.3	100	5†	45	26	0.99	-3.92	0.48	2-3	0	8	12	13	6	sw.	George P. Kirsten.
Ruayon††	Middlesex	18	21							1.86		0.67	2-3	0	8	11	9	11	s.	N. J. Water Policy Comm.
Rutherford	Bergen	51	0							3.41	-1.57	3.15	2-3	0	7					Harold Scott.
Sandy Hook	Monmouth	15	46	75.8	+3.3	97	5	56	25	3.41	-1.57	3.15	2-3	0	7					U. S. Coast Guard.
Somerville	Somerset	385	61	74.6	+2.3	101	13	43	27	2.51	-2.41	0.90	16-17	0	6	12	14	5	nw.	Norbert Larky.
Sussex	Sussex	450	49	72.0	+2.0	97	4†	38	27	3.06	-0.94	1.33	6-7	0	9	12	9	10	sw.	Marshall Hunt.
Toms River	Ocean	33	23							4.07		3.10	2-3	0	4					Robt. F. Snyder.
Trenton	Mercer	56	72	75.3	+2.3	97	4†	53	25†	1.84	-2.91	1.53	2-3	0	8	12	11	8	sw.	U. S. Weather Bureau.
Trenton No. 2	do.	105	14	75.4		97	4†	49	28	2.14		1.58	2-3	0	8					Edward H. Ristow.
Tuckerton	Ocean	23	51	73.8	-1.1	99	5	42	25	2.81	-2.49	2.34	2-3	0	7	20	4	7	sw.	John H. Brown.
Vineland	Cumberland	110	64							2.07	-2.42	1.92	2	0	3	20	6	5	sw.	Robert Jones.
Westfield	Union	145	5							2.28		1.18	2-3	0	5	20	8	3	sw.	Town Engineer.
Woodcliff Lake††	Bergen	103	26							2.00	-2.15	0.68	15-16	0	6					Hackenack Water Co.
Woodstown	Salem	16	9							3.60		1.50	2-3	0	3	22	5	4	s.	Geo. S. Keen.
New York, N. Y.		10	74	75.9	+2.8	96	4	55	25	3.08	-1.25	1.79	16	0	8	14	10	7	sw.	U. S. Weather Bureau.
Philadelphia, Pa.		10	74	75.4	+2.1	97	5	51	27	2.78	-1.84	2.61	2-3	0	5	13	9	9	sw.	U. S. Weather Bureau.
For the State				73.9	+1.9	104	5	85	26	2.79	-1.96	4.27	2-3	0	6	17	8	6	sw.	

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. ††Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also.

§Length of precipitation record; temperature record is much shorter.

*Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for August 1944

Stations	Drainage Basin	Day of month																														Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Atlantic City ¹	Coast	2.33	.08			.01	.48											T.	T.				T.	T.			T.		T.	.01		2.91
Barnegat City ⁴	Coast	1.05				.03																	.15				T.		T.	.08		1.23
Belleplain	Tuckahoe	2.32	.75			.04	.50	.03																	.05							3.77
Belmar ²	Coast	2.85	.63			.83																	.04	T.	.01		.04	T.		T.		4.66
Belvidere	Delaware	.25		T.		.29	1.23										1.21								.12							3.13
Berlin	Mullica	3.00																							.20							3.20
Boonton ³	Passaic	.02	T.	.44		.03	1.45											.17	.95				.02							T.		3.10
Bridgeton	Delaware	1.96	1.36			T.	.29																.05	.03					T.			3.69
Brooklawn	Coast	.88	1.61																				T.									2.49
Burlington	Coast	1.16	.78			.11																	.08									2.13
Canoe Brook ³	Passaic		.83				1.25										.19	.32					.08	.02						.06		2.75
Cape May ²	Coast	1.67	.01			T.	.01											T.	T.				T.	.01					T.	.01		1.71
Charlotteburg	Passaic	.12	.38				.76								.17		.69	.26					.02		.02					.04		2.46
Chatham ³	Coast		.69			.03	1.36											.22	.39				.07	.02				.04				2.82
Chatsworth	Coast		4.27																													4.27
Clayton	Delaware	1.86	1.04														.04						.62									3.52
Cluton	Raritan	.10	.28			.30		.09									.04		.31				.05									1.17
Culvers Lake	Coast	T.	.09			T.	2.20	.31								.21	.15	.25					.07		T.				.05			3.33
Dover	Passaic	.26	.49		.04	.45		.31									.01						.04				.05					1.84
Elizabeth	Coast	.15	.97			.05	.60											.37	.37				.01				T.			.01		2.53
Flemington	Raritan	.11	.37	T.		.19													.03				.02						T.			0.72
Fort Dix, A.A.B. ²	Delaware	2.95	.38		.21	T.	T.																.18			.01		T.	T.			3.73
Freehold	Raritan	.41	2.30			.04												.19	.10				.17									3.21
Hammonton	Mullica	3.10	.93				.04																.45									4.52
Hightstown	Raritan	T.	1.42	.47	T.	.13											.02	.06					.06				T.		T.			2.16
Indian Mills	Mullica	T.	* 3.01			T.	T.											.10					.14				T.		T.			3.25
Jersey City ²	Coast	.40				.15	.08										1.25		.15													2.03
Lakewood	Metedeconk	.65	3.10			.10											.05	.02					.07				.08					4.02
Lambertville	Delaware	.38	.48			.12											.10	.05					.10									1.23
Layton	Coast		.09			1.89	.17	.24								2.95	.41	.03	.27				.19		.03		T.			.10		6.37
Little Falls	Passaic		.42	.01		.10	.22										1.38	.50	.76				.09							.02		3.41
Long Branch ²	Coast	T.	2.61	1.56		.11	.03										T.		.14				.09		.06		.01					4.61
Long Valley ³	Raritan		.37			.05	.27											.43		.05				.04								1.21
Marlton	Delaware	1.48	1.35																.04				.06									2.93
Mays Landing	Gt. Egg Harbor	3.42	.41				.18																.15		.01				.01			4.18
Milville ²	Maurice	3.77	.17				.14																.10		.03							4.21
Moorestown ³	Delaware	T.	2.51			.02	.02	T.										.11	T.				.25	T.				T.				2.91
Morris Plains	Passaic	T.	.74				.37											.10	.32				.04				.03					1.60
Newark ¹	Coast	.46	.23		.03	.53											.86		.17				.01	T.	T.		T.					2.29
New Brunswick	Raritan	.18	1.51			.24	T.											.15	.07				.15				T.					2.30
New Milford ²	Hackensack	.20	.09			.02										.72	.04	1.54	.32				.02									2.95
Newton	Delaware	.11	.04	.09		.05	.04	.68	.08						.13	.02	1.05	.02	1.05	.01			.03					.04				3.44
Orange ²	Passaic	.40	.27			* .45												.53	.20				.03									1.88
Paterson ²	Coast	.29	.07			.09	.09										.49	.02	1.11	.18			.02						T.			2.27
Pemberton	Delaware	T.	1.00	2.16		T.												.08	.27				.04		T.				T.			3.23
Phillipsburg	Coast	.30	.03		.12	.14	.74	.04															.14	T.					T.			1.86
Plainfield	Raritan	T.	24.12	21	T.	.25	.10										.80		.22				.03			.01			T.			2.86
Plainboro	Coast	.41	1.20	.11	.11													.39	.18													2.40
Pleasantville ³	Coast	.06	3.21	.01			.15	.19															T.		T.					.01		3.63
Rahway ²	Rahway	.97	.53	T.	.14	.03											.34		.32				T.		T.							2.33
Ridgefield	Hackensack	.10	.38			T.	.06										.02	.23	.01	.18				.01			T.					0.99
Rumson	Coast																															
Rutherford	Passaic	T.	.25	.42		T.	T.	.08								.25	.58	.03	.23				.02		T.		T.					1.86
Sandy Hook ²	Coast	T.	1.22	1.94		.07	T.										.01		.11				.05	T.	T.		T.			.01		3.41
Somerville	Raritan	.40	.48		.45		.28										.28	.62														2.51
Sussex	Hudson	T.	.07			1.20	1.33	.03									T.		.04	.19			.05	T.	.06				.09			3.06
Toms River	Coast	.94	3.10	T.																			.02				.05					4.07
Trenton ¹	Delaware	T.	1.36	.17		.05	.01	.04										T.	.13				.07	T.		.01		T.				1.84
Trenton No. 2 ²	Coast	1.31	.27		.07	.01	.14											.17					.11		T.		.06		T.			2.14
Tuckerton	Coast	2.30	.04				.08												.02				.32					.03		.02		2.61
Vineyard	Maurice	1.92	T.				T.												.02				.13	T.			T.		T.			2.07
Westfield ²	Rahway		1.18			.09	.39											.36	.26													2.28
Woodcliff Lake ²	Hackensack	.18	.12													.68	.14	.68	.20													2.00
Woodstown	Delaware	1.50	1.50																				.60									3.60
New York, N. Y. ¹	Coast	.49	.40		.02	.04										1.79		.32					.01	T.	T.		T.			.01		3.08
Phila., Pa. ¹	Delaware	T.	2.39	.22		T.	.02	.07															.08	T.					T.			2.78

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. 1 Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. 2 Precipitation for period from midnight to midnight.

3 Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. 4 Precipitation is from 1:30 a. m. to 1:30 a. m. 1 Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

Amounts in italics are interpolated.

Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

Daily Temperatures for August 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*	Maximum	80	73	86	91	94	86	75	75	76	89	91	80	79	79	79	79	82	85	81	77	75	77	81	77	77	73	71	75	78	80	79	80.0
	Minimum	67	67	66	73	74	74	69	65	61	64	71	72	71	72	70	71	71	67	60	57	67	69	61	61	55	57	58	64	59	66	65.8	
Barnegat City†	Maximum	79	73	82	87	95	83	78	78	82	88	95	84	81	80	81	83	83	85	85	78	77	79	81	76	76	74	74	79	85	86	81.4	
	Minimum	60	60	64	70	72	72	70	68	60	63	71	69	68	72	71	68	66	64	61	56	64	66	67	60	57	55	56	63	60	64	64.3	
Belleplain	Maximum	92	84	85	97	97	94	77	79	80	88	91	94	94	93	90	92	92	92	84	82	87	83	87	76	78	78	80	78	87	88	86.4	
	Minimum	72	68	72	72	72	72	63	60	55	58	62	68	72	73	68	70	70	53	45	55	66	60	58	45	43	43	46	59	52	59	60.8	
Belvidere	Maximum	65	70	68	66	72	72	63	60	55	58	62	68	72	73	68	70	70	53	45	55	66	60	58	45	43	46	59	52	59	60.8		
	Minimum	89	81	87	99	97	90	81	85	87	94	98	98	97	93	95	95	82	79	82	86	81	87	75	76	79	79	79	77	85	87	86.9	
Boonton/	Maximum	64	66	68	65	69	71	66	63	51	54	59	65	74	69	68	68	67	70	58	48	55	60	58	46	44	43	47	55	55	59	59.6	
	Minimum	87	79	86	95	95	90	82	83	85	90	94	94	94	93	93	94	95	85	80	83	88	82	90	80	76	80	79	80	80	85	90	86.6
Bridgeton	Maximum	72	69	70	70	74	74	71	66	59	58	63	67	74	74	73	73	74	72	57	54	62	68	66	63	49	50	50	60	62	58	64.6	
	Minimum	90	86	85	98	98	95	90	83	84	91	97	95	94	94	97	96	96	91	84	85	88	87	90	88	87	80	80	80	79	88	88	89.2
Burlington	Maximum	70	70	70	67	72	72	76	65	62	59	61	64	64	62	61	65	74	72	59	64	63	67	66	62	62	64	61	49	61	57	59	64.5
	Minimum	96	84	94	103	104	94	84	84	90	98	102	101	99	99	99	100	99	86	83	85	90	87	90	81	82	78	88	82	84	92	97	91.5
Canoe Brook/	Maximum	61	66	68	61	68	68	66	54	52	52	57	64	64	72	72	69	67	68	62	60	57	62	53	58	42	37	38	38	54	45	51	58.3
	Minimum	77	72	83	93	93	86	78	76	79	86	90	79	78	81	80	81	85	84	78	76	76	76	76	78	78	78	78	78	78	81	82	80.2
Cape May*	Maximum	65	65	64	68	69	72	70	67	60	65	71	69	70	70	72	71	71	68	62	57	67	67	69	62	57	56	56	59	67	62	67	65.6
	Minimum	89	87	85	95	97	95	87	82	86	92	96	97	97	96	95	95	92	80	80	80	86	85	83	83	72	77	78	77	83	88	86.8	
Charlotteburg	Maximum	60	65	58	60	63	66	63	60	46	48	56	61	63	60	62	63	73	68	44	37	45	82	58	53	40	35	37	53	51	50	54.7	
	Minimum	97	85	84	96	97	91	79	81	83	93	97	97	97	95	95	96	97	91	84	85	90	82	90	78	76	78	80	81	86	89	88.0	
Chatsworth	Maximum	65	65	67	71	67	73	70	59	63	64	65	64	67	70	69	69	70	76	50	45	63	64	63	45	45	48	43	42	63	64	63	62.2
	Minimum	96	84	85	96	97	88	82	84	85	91	95	90	95	94	93	94	95	88	90	84	87	87	89	88	70	78	82	81	78	88	89	87.8
Clayton	Maximum	59	69	69	67	72	79	71	63	57	55	66	63	71	70	72	70	72	70	72	72	68	50	51	53	43	45	46	60	54	56	62	66
	Minimum	89	77	82	95	96	86	79	81	84	92	95	98	96	94	94	94	94	83	77	81	86	81	86	75	76	79	78	76	84	87	85.5	
Dover	Maximum	64	68	67	63	72	68	66	62	51	55	66	71	72	74	70	69	68	64	51	45	57	65	58	55	46	44	42	44	59	53	60.1	
	Minimum	94	76	86	101	101	93	82	87	89	98	101	99	99	98	98	99	98	91	83	85	89	86	92	84	81	83	82	82	82	89	93	90.4
Elizabeth	Maximum	65	70	69	66	71	70	71	62	55	65	63	67	72	78	79	71	69	69	56	54	62	66	66	65	55	53	54	54	62	58	60	64.4
	Minimum	92	86	85	102	102	92	80	86	92	100	103	102	102	99	100	101	100	89	79	91	93	88	93	80	78	82	84	83	84	92	93	91.4
Flemington	Maximum	65	71	69	66	73	71	69	65	54	57	65	69	73	73	71	70	72	55	47	54	66	61	61	47	47	47	47	47	60	54	61	62.2
	Minimum	87	77	82	97	97	84	78	81	83	92	95	95	96	93	92	94	93	84	78	82	88	87	87	75	76	78	78	78	85	86	85.4	
Fort Dix, A. A. B.*	Maximum	71	69	71	70	71	72	67	62	58	60	66	69	72	75	72	72	74	64	59	49	60	65	66	58	51	52	52	47	59	60	59	63.6
	Minimum	88	83	79	96	98	91	79	81	84	93	97	95	96	94	93	95	94	92	81	81	88	82	89	83	77	78	78	79	80	88	88	87.1
Freehold	Maximum	67	67	68	66	73	70	69	61	52	55	66	66	70	71	69	69	72	70	52	46	52	64	62	60	46	45	46	50	58	55	58	61.1
	Minimum	90	79	88	98	98	87	76	82	85	91	96	95	95	93	94	95	96	87	80	85	89	79	79	77	78	82	80	81	79	87	89	87.1
Hammonton	Maximum	70	69	67	67	73	72	71	61	54	54	67	65	72	72	72	71	72	71	51	46	56	65	65	61	46	47	46	44	59	52	55	61.7
	Minimum	89	82	83	97	96	86	77	80	85	94	97	95	96	93	94	95	95	86	80	84	88	81	90	78	78	81	79	82	80	88	88	87.0
Hightstown	Maximum	69	68	67	67	73	71	70	60	53	56	65	68	72	72	70	72	73	71	55	45	59	65	62	61	45	43	42	45	59	53	58	61.6
	Minimum	86	78	84	90	99	90	79	87	88	92	97	96	97	94	94	95	96	86	81	87	88	78	92	79	80	82	82	80	78	85	89	87.6
Indian Mills	Maximum	69	69	70	65	73	71	70	61	52	52	63	64	72	72	72	72	73	71	47	41	56	65	65	62	41	39	39	40	59	52	54	60.4
	Minimum	84	78	80	96	96	84	77	80	82	94	97	96	92	93	95	94	95	84	77	87	84	81	85	76	73	75	78	74	75	84	84	84.8
Jersey City*	Maximum	72	70	70	72	76	73	70	64	63	64	70	72	75	76	75	76	74	71	60	56	62	68	66	58	52	54	52	57	64	60	65	66.3
	Minimum	86	82	78	94	96	89	78	80	83	92	94	96	96	94	94	95	95	90	80	89	81	88	80	77	78	76	79	79	86	88	86.2	
Lakewood	Maximum	70	68	69	67	74	71	71	61	54	54	66	70	72	74	72	73	74	73	58	48	56	66	65	62	46	47	47	47	60	54	60	62.9
	Minimum	88	84	85	99	98	92	79	86	90	96	98	98	98	96	97	97	90	82	87	85	91	84	77	77	82	82	80	78	87	90	89.1	
Lambertville	Maximum	65	70	68	67	73	71	70	60	55	58	64	68	73	75	72	72	72	72	54	46	56	66	62	60	46	44	45	47	60	52	59	62.0
	Minimum	90	81	86	97	97	89	67	81	81	93	94	95	94	93	91	91	92	81	75	79	85	80	83	71	72	75	80	77	75	83	84	84.3
Layton	Maximum	63	67	66	64	65	67	60	60	60	69	54	58	65	66	68	64	65	60	66	45	38	49	64	59	55	41	40	42	41	55	45	56.5
	Minimum	90	81	86	99	99	88	81	84	89	97	100	99	97	96	96	96	95	84	79	83	86	81	88	76	77	78	78	77	77	88	90	87.7
Little Falls/	Maximum	66	70	68	65	73	71	67	60	53	56	62	62	75	76	72	69	69	71	54	47	55	65	60	61	47	44	47	47	60	55	57	61.3
	Minimum	91	77	79	95	97	85	77	80	82	90	99	95	90	94	93	96																

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CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX. SEPTEMBER 1944. No. 9

THE HURRICANE OF SEPTEMBER 14, 1944, IN NEW JERSEY

The hurricane which lashed the eastern coast of the United States on September 14, 1944, took a toll of at least 8 lives in New Jersey and was, from the standpoint of property damage, the most destructive storm in this State for more than half a century. In fact, neither weather records nor old newspaper accounts reveal another storm as damaging since the Civil War. Damage to property of all kinds in this State has been conservatively estimated at more than \$25,000,000. Eight persons are known to have lost their lives including five drowned on Long Beach Island, one drowned at Sea Isle City, and two deaths from injuries at Atlantic City. At the latter city, 121 persons were injured, 75 were injured at Brigantine, and on Long Beach Island, 50 persons were treated by physicians. The very effective work of the Coast Guard on this island no doubt prevented many more casualties. A total of 320 people were officially reported as injured in the entire shore area, some requiring hospitalization.

On September 8, a tropical disturbance was noted and on the following day, it was recognized by the Weather Bureau as a fully developed hurricane moving west-north-westerly with its center about latitude 21° N., longitude 60° W. It drifted slowly in this direction until the evening of the 12th, when its center was located near latitude 27° N., longitude 75° W. By this time it was recognized through reconnaissance flights as a very large and violent storm and was apparently recurving to a northward course, moving almost due north at a rate of 25 to 30 miles per hour. The center passed just east of Hatteras, N. C., at 9:20 a. m. (EWT) of the 14th, then turning slightly northeastward it moved up the coast at a speed of about 40 miles an hour crossing eastern Long Island about 10 p. m. of the 14th. The lowest pressure at Atlantic City was 28.73 inches at 6 p. m. (EWT). A maximum wind velocity for a five minute period of 82 miles per hour from the north was registered there at 5:30 p. m., with an extreme velocity at the same time of 91 miles per hour. The storm's center probably passed 50 to 75 miles at sea. New York City recorded a minimum pressure of 29.08 inches at 8:15 p. m. with a maximum velocity of 81 miles per hour from the north at 8:27 p. m., and an extreme velocity of 99 miles per hour. At Trenton, the lowest pressure reached was 29.18 inches at 6:40 p. m., with a maximum velocity of 49 miles from the north and an extreme velocity of 54 miles per hour near the time of lowest pressure.

Damage by this storm was of a varied nature. Compilations by reliable authorities show that 460 homes were destroyed and more than 3,000 others damaged, many of them too badly for occupancy. Of other buildings, 217 of various kinds were reported destroyed and 635 damaged. Scores of smaller type boats were destroyed or damaged. Boardwalks at the numerous shore resorts were almost completely destroyed including about 2 1/2 miles of the famous Atlantic City esplanade. The huge piers there were also severely damaged. Much damage resulted from the flooding of homes and business property by the wind-driven ocean waters. On some streets of Atlantic City, water stood several feet deep, and at Ocean City streets were covered by one to three feet of water. At the great Atlantic City Convention Hall, used for Army headquarters, water stood eight feet deep in the basement, the day after the storm and covered 5 1/2 acres according to an estimate credited to the post engineer. The most severe wreckage of homes occurred on Long Beach Island where more than 300 permanent or seasonal homes were destroyed and about as many more seriously damaged, many unfit for occupancy. Damage to roofs and chimneys was heavy in all shore areas. While, by far, the greater part of the storm damage occurred in the seashore municipalities, there was important damage in the interior of the State. This was largely in the nature of damage to orchards and shade trees which was much greater due to the softening of the ground by the heavy rains during and preceding the passage of the hurricane. Many thousands of trees were uprooted. In the city of Newark alone, more than \$50,000 was spent in removing trees from the streets and parks and leveling the ground where they stood. Some other cities appear to have suffered more heavily in proportion to size. Even at Trenton, 45 miles from the coast, tree loss was heavy. Approximately 700,000 bushels of apples were blown from the trees, and while much of these were salvaged by canning factories, a heavy loss was entailed. Agricultural losses in the State were estimated by officials at 3 1/2 million dollars. Damage to communication and power lines was very heavy. An official of the New Jersey Bell Telephone Company estimated damage to their property at \$450,000, with a considerable loss of revenue also from curtailed service.

With respect to the shore counties, estimates of damages arrived at through information from State, Municipal, and Federal Officials, and believed to be conservative are as follows: Atlantic County, \$5,000,000 mostly in Atlantic City, Margate, Long Port, Ventnor, and Brigantine. Cape May County, \$4,000,000 in Cape May City, Ocean City, Sea Isle City, Stone Harbor Borough, and Upper Township. Ocean County, \$4,000,000 including Long Beach Island, where most of the damage occurred. Monmouth County, \$3,000,000 including \$2,500,000 at Asbury Park and Ocean Grove, \$2,000,000 at Long Branch, and heavy losses at Belmar, Bradley Beach, Deal, Keyport, and in the boroughs of Keansburg and Highlands. In many cases it was impossible to determine whether damage was caused by the wind directly or by the wind-driven waves.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 41 stations, was 66.8°, which was 1.0° above normal. The highest temperature was 99° at Flemington on the 2d, and the lowest, 28°, at Charlotteburg on the 25th. The highest monthly mean temperature was 69.6° at Bridgeton, and the lowest, 61.6° at Layton. The temperature departure from the normal for the year, 1944, to date, for the State is +1.1°.

PRECIPITATION.

The mean total precipitation for the State, as computed from observations of 63 stations, was 7.93 inches, which was 4.14 inches above normal. The greatest monthly precipitation was 12.63 inches, at New Brunswick, and the least, 4.63 inches at Sussex. The greatest amount of precipitation in any 24 consecutive hours was 6.00 inches at Rahway on the 13th.

The average for the Highlands was 5.78 inches; for the Red Sandstone Plain 8.35 inches; for the Southern Interior 8.10 inches; and for the Sea Coast, 8.14 inches.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: The Highlands, -2.36 inches; Red Sandstone Plain, +0.52 inch; Southern Interior, +0.14 inch; Sea Coast, -0.66 inch.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 5, 12, 13, 14, 19, 20, 21, 25, 27.
THUNDERSTORMS: 1, 2, 4, 5, 12, 13, 14, 21, 22, 27, 28, 29, 30.
KILLING FROST: None.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.46	18	28.73	14	15.0	82	n.	14	85	71	80	56	31
Long Branch.....	30.48	18	28.93	14	11.4	74	n.	14	82	73	58	53	46
Trenton.....	30.47	18	29.19	14	8.0	49	n.	14	83	56	70	52	49

COMPARATIVE DATA FOR SEPTEMBER.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	64.2	93	38	0.83	0	.....	.....	.....	.....
1886.....	66.9	95	36	1.13	0	.....	.....	.....	.....
1887.....	61.6	90	30	3.66	0	.....	.....	.....	.....
1888.....	63.1	84	29	7.09	0	.....	.....	.....	.....
1889.....	64.8	90	34	8.36	0	.....	.....	.....	.....
1890.....	64.4	91	33	4.75	0	10	10	10	10
1891.....	68.7	95	38	2.46	0	6	16	9	5
1892.....	64.2	90	33	1.81	0	6	15	11	4
1893.....	62.7	90	31	3.20	0	8	12	10	8
1894.....	68.8	97	31	7.46	0	8	10	10	10
1895.....	69.7	109	29	1.07	0	8	17	10	3
1896.....	65.1	95	30	4.37	0	9	19	7	4
1897.....	65.5	99	30	1.65	0	9	19	7	4
1898.....	68.6	100	31	2.00	0	6	17	8	5
1899.....	64.4	93	30	5.88	0	9	15	9	6
1900.....	69.9	98	32	2.86	0	6	14	10	6
1901.....	66.8	94	29	3.38	0	10	15	9	6
1902.....	64.6	93	30	5.65	0	13	11	7	12
1903.....	65.0	92	29	3.34	0	7	17	8	5
1904.....	64.8	93	23	4.79	0	7	14	10	6
1905.....	65.4	90	28	5.23	0	8	16	7	7
1906.....	68.9	94	33	2.19	0	7	15	9	6
1907.....	67.1	92	31	8.08	0	14	10	8	12
1908.....	65.7	90	29	2.09	0	3	11	10	9
1909.....	64.5	89	30	3.30	0	8	11	10	9
1910.....	67.3	97	32	2.39	0	6	12	10	8
1911.....	66.4	90	30	2.88	0	9	10	12	8
1912.....	65.9	87	28	4.47	0	10	12	7	11
1913.....	64.4	96	27	3.87	0	9	13	8	9
1914.....	64.0	99	24	0.37	0	3	21	6	3
1915.....	68.5	97	30	2.08	0	5	17	9	4
1916.....	65.2	98	31	2.84	0	6	20	7	8
1917.....	61.5	87	27	2.74	0	6	16	7	7
1918.....	62.2	90	29	3.84	0	9	14	8	8
1919.....	65.8	96	32	8.26	0	8	16	6	8
1920.....	66.8	90	30	3.87	0	7	17	8	6
1921.....	70.2	99	36	2.35	0	8	15	8	7
1922.....	66.7	95	27	2.26	0	4	19	5	6
1923.....	67.0	90	28	3.78	0	7	14	8	8
1924.....	62.2	99	29	5.42	0	10	13	8	9
1925.....	67.8	96	25	2.92	0	7	11	11	8
1926.....	64.5	93	32	4.18	0	10	14	6	10
1927.....	65.6	97	29	2.66	0	5	19	6	5
1928.....	62.6	90	29	4.52	0	10	12	8	10
1929.....	67.0	100	28	4.74	0	8	14	7	9
1930.....	69.4	95	32	2.14	0	8	16	9	5
1931.....	70.5	100	34	1.98	0	6	19	6	6
1932.....	66.4	100	27	2.29	0	7	16	8	6
1933.....	68.0	93	38	6.07	0	10	12	9	9
1934.....	67.3	91	35	9.00	0	13	10	7	13
1935.....	63.2	89	27	6.12	0	8	15	7	8
1936.....	66.9	94	28	4.70	0	8	12	8	10
1937.....	63.4	98	29	2.63	0	6	19	5	6
1938.....	66.6	95	30	9.67	0	13	12	7	11
1939.....	63.5	98	31	1.49	0	8	15	9	6
1940.....	63.5	93	25	4.41	0	5	17	6	7
1941.....	67.5	98	26	0.28	0	2	21	6	3
1942.....	65.1	96	25	4.55	0	8	16	5	9
1943.....	66.0	98	26	1.85	0	6	16	7	8
1944.....	66.8	99	28	7.93	0	9	12	7	11
Period.....	66.8	109	23	3.79	0	8	15	8	7

Climatological Data for September 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days					Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	71	68.7	+1.9	91	5	53	25	5.76	+3.11	2.86	14-15	0	13	8	8	14	e.	U. S. Weather Bureau.
Barnegat City	Ocean	35	5	67.5		90	3	46	12						9					U. S. Coast Guard.
Bell plain	Cape May	49	50							7.26	+3.88				11	11	11	8	w.	Mrs. Edward C. Hoffman
Belmar	Monmouth	19	3							8.09					10				ne.	City Water Dept.
Belvidere	Warren	289	52	67.0	+1.9	96	2	38	25	6.97	+3.23	3.02	13-14	0	11	17	3	10		Miss C. S. Hixson.
Berlin	Camden	70	3							5.90		3.21	14	0	5	21	6	3		Samuel H. McCulley.
Boonton	Morris	280	56	65.0	+1.5	91	2	34	25	6.29	+2.44	1.90	13-14	0	7	13	5	10	ue.	John Kline.
Bridgeton	Cumberland	30	61	69.6	+1.3	92	3	43	25	7.67	+4.36	3.05	14	0	11	15	5	15	ne.	Bennett K. Matlack.
Brooklawn	Camden	30	3							6.93		2.95	13-14	0	6					C. D. Scott.
Burlington	Burlington	12	58	69.2	+1.5	92	3	43	25	9.49	+5.93	4.60	12-13	0	7	15	4	11	sw.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	14	65.3	+1.5	92	3†	36	25	7.41	+2.56	2.97	14	0	7	14	6	10	w.	N. J. Water Policy Comm.
Cape May	Cape May	17	56	69.4	+0.4	89	3	50	25	6.13	+3.13	3.55	14	0	12	8	8	14	sw	Naval Air Station.
Charlotteburg††	Passaic	760	52	64.1	+1.8	92	2	28	25	4.95	+0.80	1.35	12-13	0	10	12	5	13	sw.	Newark Water Dept.
Chatham	Morris	185	40							6.87	+2.65	2.58	14-15	0	7	12	10	8		Edward P. Molitor.
Chatworth	Burlington	90	4	67.6		92	1	36	25†	9.13		4.57	14	0	8	10	9	11	sw.	Alfred L. Stevenson.
Clayton	Gloucester	129	31	67.8	+0.8	91	5	40	24	6.19	+2.71	4.00	13-14	0	5	8	2	20	n.	Worthy Hitt.
Clinton	Hunterdon	300	1							5.11		1.65	12-13	0	11	15	4	11	w.	L. W. Klockner.
Culvers Lake††	Sussex	760	43							5.82	+1.80	2.74	13-14	0	8					L. S. Depue.
Dover	Morris	600	60	64.1	+1.6	93	2	34	25	5.00	+0.92	2.00	12-13	0	7	9	9	12		William C. Harris.
Elizabeth	Union	34	65			96	2†	38	25	12.42	+8.81	5.10	12-13	0	12	13	4	13	ne.	Union County Park Comm.
Flemingtown	Hunterdon	140	58	68.6	+1.9	99	2	39	25	5.16	+1.52	1.34	12-13	0	12	16	5	9	e.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	129		67.0		91	3	41	25	9.35		4.18	14	0	10	9	9	12	w.	A. A. B. Weather Station.
Freehold	Monmouth	194	40	66.7	+0.6	92	3	36	25	11.46	+7.08	3.15	14	0	9	14	8	8	w.	Moreau Plant Co.
Hammonton	Atlantic	95	38	67.8	+0.8	91	3	37	25	7.61	+3.40	3.84	14	0	11	14	6	10	ne.	J. G. Wilson.
Hightstown	Mercer	110	51	66.7	+0.2	93	3	38	25	11.54	+8.33	5.46	12-13	0	11	11	9	10	nw.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington	100	55	67.4	+1.0	93	3	35	25	7.08	+3.59	3.45	15	0	12	10	13	7	w.	Edward Entwistle.
Jersey City	Hudson	81	46	66.6	-1.0	91	2	42	25	8.99	+5.59	4.00	13	0	8	15	8	7	ue.	J. C. Water Dept.
Lakewood	Ocean	54	40	67.4	+2.2	92	2†	39	25	8.35	+5.31	2.25	14-15	0	11	10	8	12	w.	R. W. Holman.
Lambertville	Hunterdon	75	57	66.8	+1.0	95	2	37	25	6.39	+3.03	2.80	12-13	0	10	12	5	13	nw	Mabel Wollaston
Layton††, 3 miles NW.	Sussex	480	43	61.6	-0.9	91	2	32	25	6.21	+2.35	3.26	13-14	0	9	15	2	13	w.	A. M. Depue.
Little Falls	Passaic	157	41	66.4	+1.1	94	2	37	25	8.89	+5.21	3.88	12-13	0	7	16	8	6	nw	Passaic Valley Water Co.
Long Branch	Monmouth	34	36	67.2	+1.3	92	2†	40	25	11.13	+7.94	4.94	14	0	10	8	10	12	w.	Storm Warn. Display Sta.
Long Valley	Morris	660	14	62.4	-0.3	94	3†	30	25	5.56	+0.99	1.90	14	0	8	11	11	8	w.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	3							7.52		4.35	14	0	9	12	9	9	w.	Elmer Earle.
Mays Landing	Atlantic	50	0							8.42		3.66	13-14	0	13					David Gri-com.
Milville	Cumberland	60	4							8.46		4.31	14	0	12	13	11	6		Paul Ritchie.
Moorestown	Burlington	62	81	67.6	+1.4	93	2†	40	25	8.31	+4.78	3.31	14	0	7	12	4	14	nw.	Japanese Bee'le Laboratory
Morris Plains.	Morris	500	3							6.71		1.74	12-13	0	10	20	3	7		James C. Long.
Newark	Essex	10	90	68.2	+1.8	97	2	43	25	10.28	+6.59	4.59	12-13	0	7	9	8	13	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	90	67.9	+2.1	94	2	40	25	12.63	+9.27	5.25	12-13	0	9	13	8	9	ne.	N. J. Experiment Station.
New Milford††	Bergen	12	26							7.95	+3.60	3.60	14	0	7					Hackensack Water Co.
Newton	Sussex	769	61	65.1	+1.3	92	2	37	25	6.05	+2.29	1.91	13-14	0	11	9	8	13	nw.	Irving J. Kern.
Orange††	Essex	140	4							7.96		3.06	13-14	0	7					County Engineer.
Paterson	Passaic	95	73	67.1	+0.8	94	2	36	25	6.12	+2.51	1.84	13	0	10	12	9	9	w.	J. W. Cook.
Pemberton	Burlington	55	15	69.0	+1.3	93	3	40	25	7.45	+3.27	3.59	14	0	10	15	3	12	nw	Charles A. Doehrlert.
Phillipsburg	Warren	182	56†	64.4	-0.8	94	2	37	25	6.86	+3.37	3.03	12-13	0	12	17	5	8		Town Engineer.
Plainfield	Union	120	56	67.2	+1.6	94	2†	40	25	8.42	+4.39	2.67	12-13	0	12	8	12	10	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	3							10.64		3.58	12-13	0	8					Walker-Gordon Lab.
Pleasantville††	Atlantic	8	46	67.6	+1.7	93	3	39	25	7.01	+4.04	3.85	14-15	0	10	10	9	11	s.	N. J. Water Policy Comm.
Rahway	Union	20	5							12.47		6.00	13	0	8	11	5	16	nw.	Louis Fontenelli.
Ridgefield	Bergen	80	27	67.4	+2.3	96	2	38	25	10.17	+7.03	4.00	13-14	0	6	8	10	12	nw.	George P. Kirsten.
Runyon††	Middlesex	18	21	64.4	+0.1	88	4	32	25	12.27	+8.27	4.76	14-15	0	9	19	4	7	w.	N. J. Water Policy Comm.
Rutherford	Bergen	51	0							8.75		3.29	14	0	10	11	7	12	nw.	Harold Scott.
Sandy Hook	Monmouth	15	46	68.4	+0.9	89	2	53	25†	9.60	+6.17	4.12	14	0	10					U. S. Coast Guard.
Somerville	Somerset	385	61			96	3	35	25	6.56	+2.84	2.45	12-13	0	6	10	12	8	e.	Norbert Larky.
Sussex	Sussex	450	49	64.6	+0.3	92	2	33	25	4.63	+1.06	1.56	13-14	0	9	10	6	14	nw.	Marshall Hunt.
Toms River	Ocean	33	23							7.72	+3.44	3.00	14	0	9					Robt. F. Snyder.
Trenton	Mercer	56	72	67.8	+0.9	91	2†	44	25	7.60	+4.20	3.09	12-13	0	8	8	9	13	n.	U. S. Weather Bureau.
Trenton No. 2	do.	105	14	67.6		92	2†	40	25	9.82		3.29	13	0	9					Edward H. Ristow.
Tuckerton	Ocean	23	51	68.5	+1.8	95	3	40	25	7.15	+3.89	3.95	14-15	0	11	14	5	11	e.	John H. Brown.
Vineland	Cumberland	110	64							6.67	+3.22	2.10	14	0	10	14	10	6	sw	Robert Jones.
Westfield	Union	145	5							8.68		3.00	15	0	7	15	4	11	sw.	Town Engineer.
Woodcliff Lake††	Bergen	103	26							10.23	+6.06	3.05	14	0	9					Hackensack Water Co.
Woodstown	Salem	16	9							5.50		1.75	14	0	5	15	10	5	w.	Geo. S. Keen.
New York, N. Y.		10	74	68.3	+1.5	90	2	51	26	8.61	+5.22	3.47	12-13	0	7	11	7	12	e.	U. S. Weather Bureau.
Philadelphia, Pa.		10	74	68.6	+2.7	93	2	45	25	5.82	+2.68	2.80	13	0	12	6	10	14	sw.	U. S. Weather Bureau.
For the State				66.8	+1.0	99	2	28	25	7.93	+4.14	6.00	13	0	9	12	7	11	w.	

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. ††Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also. †Length of precipitation record; temperature record is much shorter. *Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for September 1944

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ¹	Coast	.01	T.				.02	.21					.51	.99	2.85	.01			.02	.50		.03							.29	.03	.32	5.76	
Barneget City ⁴	do.	.21			.01		T.	.22					.07	§§	§§					.46									.62	.20	.08	§§	
Belleplain	Tuckahoe		.35										.77	.79	2.00	2.04			.04	.16	.08		.10						.70	.28		7.26	
Belmar ²	Coast	.66	T.		.07			T.			T.	1.30	1.69	4.15	T.		T.	T.	.04	T.	.04	T.							.11	.02	.01	8.09	
Belvidere	Delaware	.03			.12							1.19	1.79	3.02	.06			T.	T.	.30	.03	.03	.07						.33			6.97	
Berlin	Mullica											.20	2.20	3.20							.20										.10	5.90	
Boonton ³	Passaic		.79								T.	1.73	1.90	1.32							.14		.03						.38			6.22	
Bridgeton	Delaware		.13					.15				.83	2.02	3.05	.15			.07	.22			.14							.68	.23		7.67	
Brooklawn	do.	.10											1.98	2.95	.95	.85													T.	.10		6.93	
Burlington	do.		.26		.18			T.				*	4.60	3.80					.60											.05		9.49	
Canoe Brook ³	Passaic		.02										2.52	1.50	2.97					.05		.05								.30			7.41
Cape May ²	Coast						.01					.21	.64	3.55	.02				.02	.50	.01	.20							.26	.24	.47	6.13	
Charlotteburg	Passaic		.33									.45	1.35	1.30	1.08				.07	.10	.01		.10							.16		4.95	
Chatham ³	do.		T.			.02							2.07	1.67	2.58					.08		.09								.36		6.87	
Chatsworth	Coast	.55											*	2.89	4.57	T.				.21		.45								.23	.23	9.13	
Clayton	Delaware											1.15	.60	4.00					.22										.22			6.19	
Clinton	Raritan		.01		.19	.22						.84	1.65	1.42	.26				.29		.02								.19	.02		5.11	
Culvers Lake	do.					T.						.50	1.42	2.74	.40			T.	.25			.12							.31	.08		5.82	
Dover	Passaic		.05									1.15	2.00	1.45				*	.14		.09								.12			5.00	
Elizabeth	Coast		.03		.01	.05						1.70	.50	1.02	1.02	.72			.04	.02		.03							.11	.51		12.42	
Flemington	Raritan		.04		.17	.09						.77	1.34	1.28	.68				.03	.36	.02	T.							.09	.29	T.	5.16	
Fort Dix, A.A.B. ²	Delaware	1.71	.01	.05			T.	.02				1.22	2.06	4.18	T.		T.	T.	.07	T.	T.								.01	T.	.02	9.35	
Freehold	Raritan		.87		.04			.01				1.90	3.32	5.15					.10	.01									T.	.06		11.46	
Hammonton	Mullica		.93	.40				.08				.85		3.04	.80			.08	.31			.06							.43	.63		7.61	
Hightstown	Raritan		.02	.46		.05	.02	T.				1.20	5.46	*	4.11			T.	.06										.13	.03	T.	11.54	
Indian Mills	Mullica		T.	.14	T.	T.		.02				1.36	1.54		3.45			T.	.12	T.	.25	.06							.02	.03	.09	7.08	
Jersey City ²	Coast	.02										1.60	4.00	3.00					.08	.03	.01								.25			8.99	
Lakewood	Metedeconk	.24	.08		.05							1.70	1.42	2.20	2.25				.17			.03							.15	.06		8.35	
Lambertville	Delaware			.09	.22							1.08	2.80	1.42	.08				.20										.40	.05	.05	6.39	
Layton	do.		.01									.74	1.16	3.26	.17				.21			.11							.47	.08		6.21	
Little Falls ³	Passaic		.28									.38	1.37	2.60					.11			.16							.49			8.89	
Loug Branch ²	Coast	.18		.04			.01					1.59	3.95	4.94	T.				.23		.05	T.							.11	.03	T.	11.13	
Long Valley ³	Raritan		.03			.02						1.10	1.85	1.90					.30			.16							.20			5.56	
Marlton	Delaware		.08			.01						1.53	1.22	4.35	T.				.16			.08							.04	.05		7.52	
Mays Landing	Gt. Egg Harbor		.90			.21						.89	.89	3.66	.02			.04	.28	.40	.05	.05							.86	.17		8.42	
Milville ²	Maurice			.60	.10			.22	.03			.33	1.54	4.31					.33		.11								.63	.06	.20	8.46	
Moorestown ³	Delaware		.12			.01	T.					.07	2.05	3.31	2.72				T.	T.		T.							.03	.05		8.36	
Morris Plains	Passaic		.29	.02								1.40	1.74	1.54	1.23			T.	.05	.05		.09							.30			6.71	
Newark ¹	Coast	.01	T.		T.		T.	T.				1.83	4.56	3.40					.07	T.	.01								.40	T.		10.28	
New Brunswick	Raritan	T.	.10		.07	.05						1.50	5.25	1.65	3.58			T.	.04	T.	T.	T.							T.	.39		12.63	
New Milford ²	Hackensack	.54										1.62	1.61	3.60					.06		.20								.32			7.95	
Newton	Delaware		.01									.81	1.90	1.91	.31			.01	.31	.03		.31							.21	.24		6.05	
Orange ²	Passaic											1.91	2.63	3.06					.10	.01	.08								.22			7.96	
Paterson ²	do.	.39										1.61	1.84	1.54	.02				.14	.01	.11								.42	.04		6.12	
Pemberton	Delaware	.09	.10		.09			.01				1.51	1.88	3.59				T.	.07	T.									.01	.10		7.45	
Phillipsburg	do.	.28	.03		.22	.36	T.	T.				1.05	3.05	.94	.02			T.	.43		.03	.12							.33			6.86	
Plainfield	Raritan		.06		.14	.01						2.10	2.67	1.72	1.04				.08		.04	.05							.48	.03	T.	8.42	
Plainsboro	do.		.73		.16	T.						1.62	3.58	2.30	1.80				.15										.30			10.64	
Pleasantville ³	Coast		.05					.21				.08	1.55	.19	3.85	T.			.23	.12		.28							.45			7.01	
Rahway ²	Rahway	T.		T.	.27	.02						2.00	6.00	3.48				T.	.10		T.								.58	.02		12.47	
Ridgefield	Hackensack	T.				T.						1.52	2.96	4.00	.90				T.	T.		.16							.63			10.17	
Runyon	Coast				.07	.06						1.29	3.48	2.14	4.76				.06	.03									.38			12.27	
Rutherford	Passaic	T.	.02									2.15	3.29	2.10	.64				.12	.02	T.	.06							.34	.01		8.75	
Sandy Hook ²	Coast	1.14			.03		T.	.01				1.94	2.12	4.12	T.			T.	.11	T.	.01	T.							.08	.04		9.60	
Somerville	Raritan											1.87	2.45	*	1.98														.16	.10		6.56	
Sussex	Hudson		T.			.20						.48	1.10	1.56	.76				.10		T.	.09							.21	.13		4.63	
Toms River	Coast	.02		.12					.03			1.42	1.40	1.00	3.00				.21			.12							.23				

Daily Temperatures for September 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	78	84	90	79	91	83	81	69	71	72	71	71	79	74	85	81	72	70	69	73	73	76	65	63	63	69	71	72	69	63	74.2
	Minimum...	69	69	70	70	71	65	61	59	54	57	60	67	69	65	66	66	66	66	66	65	64	61	56	55	53	55	62	66	62	58	63.2
Barnegat City†.....	Maximum...	81	84	90	78	89	80	81	70	74	74	75	72	78	73	77	77	74	69	69	77	77	79	67	64	64	71	71	73	69	62	74.6
	Minimum...	67	66	68	66	68	65	61	55	55	56	56	46	68	70	60	62	64	63	64	63	63	61	52	53	53	51	57	64	60	56	60.4
Belleplain.....	Maximum...	89	89	90	89	91	86	81	75	75	81	75	74	84	78	84	84	80	71	71	79	84	75	69	65	67	73	77	83	75	66	78.7
	Minimum...	86	86	86	82	85	85	81	75	84	82	84	69	71	76	84	82	81	83	81	85	79	75	66	69	69	77	79	70	69	61	78.6
Belvidere.....	Maximum...	65	66	61	59	64	60	62	47	45	51	47	56	60	67	65	58	55	61	61	65	65	54	49	42	38	42	48	57	54	42	55.5
	Minimum...	84	91	90	82	85	84	78	73	70	80	79	68	73	78	83	82	78	72	69	79	76	72	65	66	68	75	78	72	68	68	76.2
Boonton/.	Maximum...	58	65	67	54	60	63	64	47	49	45	44	46	60	63	65	58	55	55	61	63	65	58	49	42	34	35	40	48	56	43	53.7
	Minimum...	91	90	92	88	91	85	86	76	75	81	80	74	84	75	82	81	83	75	72	79	81	75	65	70	70	74	77	81	70	64	78.9
Bridgeton.....	Maximum...	80	71	65	65	69	62	64	51	49	51	54	63	69	68	67	62	61	65	64	65	65	59	54	48	43	47	55	60	60	53	60.3
	Minimum...	86	91	92	90	87	86	84	78	75	80	75	73	76	75	84	86	82	78	72	78	76	77	65	66	70	78	79	81	72	67	78.5
Burlington.....	Maximum...	66	69	66	62	62	72	64	55	54	51	54	68	52	60	61	69	69	64	63	65	65	61	53	48	43	46	54	71	61	51	59.9
	Minimum...	90	92	92	86	85	89	82	75	77	83	87	74	79	82	84	86	82	78	72	78	76	77	65	66	70	78	79	68	71	62	78.8
Canoe Brook /.....	Maximum...	64	66	58	50	55	55	62	44	44	39	44	46	60	63	62	56	52	57	60	63	61	54	43	39	36	37	44	50	54	37	51.8
	Minimum...	76	87	89	82	87	81	78	70	74	75	74	73	76	74	84	80	73	71	74	74	74	74	66	66	70	71	74	68	64	74	78.8
Cape May*.....	Maximum...	69	68	72	68	70	69	67	63	56	58	60	68	72	69	68	66	66	66	66	67	67	64	54	51	50	60	62	66	63	53	63.9
	Minimum...	86	92	91	87	85	82	79	76	70	81	81	68	70	75	82	81	81	76	70	79	74	70	64	65	61	75	77	75	68	62	76.9
Charlotteburg.....	Maximum...	60	65	65	50	55	65	60	49	50	36	37	45	58	61	65	53	48	50	58	62	60	51	46	40	28	33	46	52	51	38	51.2
	Minimum...	92	91	91	90	86	83	74	72	72	77	75	71	81	81	84	83	79	73	70	80	82	76	64	66	69	77	80	83	78	58	78.5
Chatsworth.....	Maximum...	64	68	65	63	68	65	61	45	42	44	49	59	69	70	65	59	53	64	63	63	63	59	48	42	36	36	47	55	63	50	56.6
	Minimum...	88	88	87	86	91	86	85	80	74	76	80	73	83	79	85	83	77	81	72	82	82	81	75	71	71	75	78	75	65	70	79.3
Clayton.....	Maximum...	67	67	60	58	63	59	63	47	49	48	51	61	69	65	66	60	55	45	63	64	64	58	52	40	42	42	51	57	54	51	56.4
	Minimum...	84	93	91	81	87	83	78	71	70	77	75	65	70	74	81	78	76	70	67	76	74	73	64	61	64	72	75	73	66	60	74.3
Dover.....	Maximum...	64	68	66	55	59	60	58	48	51	42	43	50	62	56	63	58	63	58	61	64	65	51	43	40	34	40	46	57	49	43	53.9
	Minimum...	88	96	96	87	92	88	85	76	75	82	81	68	73	76	87	86	80	74	69	77	78	78	69	69	67	78	80	76	74	64	79.0
Elizabeth.....	Maximum...	92	99	98	88	90	89	84	77	76	87	81	74	74	78	88	85	81	71	69	82	77	75	70	71	74	80	79	75	70	65	80.0
	Minimum...	65	68	63	63	63	61	65	50	53	47	49	56	64	69	68	61	59	62	62	66	66	57	50	46	39	43	49	58	57	48	57.6
Flemington.....	Maximum...	90	90	91	83	87	83	78	73	74	77	75	72	78	77	82	80	79	70	69	79	80	72	65	64	68	73	77	81	68	59	76.5
	Minimum...	67	71	66	62	66	62	60	51	49	51	51	57	69	64	64	63	59	62	62	64	64	58	47	43	41	46	52	57	51	48	57.6
Fort Dix, A. A. B.*.....	Maximum...	89	91	92	87	88	84	81	74	75	78	77	73	75	73	83	84	78	70	70	78	80	75	67	61	67	74	77	79	74	62	77.3
	Minimum...	66	66	63	61	63	59	62	49	45	46	50	57	66	67	63	58	57	61	60	62	62	55	48	42	36	44	50	55	56	50	56.1
Freehold.....	Maximum...	88	81	91	85	90	90	81	74	75	79	77	73	88	82	82	84	80	70	71	80	82	78	75	71	74	73	80	86	81	68	79.6
	Minimum...	55	68	64	63	68	59	62	49	45	46	48	60	69	69	60	56	65	63	56	60	54	49	44	37	41	49	54	58	47	47	56.1
Hammonton.....	Maximum...	87	91	93	83	87	85	80	73	75	78	78	68	75	78	82	83	78	70	69	79	80	74	65	66	69	74	78	80	70	60	76.9
	Minimum...	63	66	64	60	63	68	62	50	47	45	48	54	65	63	65	60	60	63	62	64	64	57	49	45	38	44	53	56	58	48	56.5
Hightstown.....	Maximum...	86	92	93	85	91	83	80	75	75	81	78	73	82	77	83	84	80	70	71	82	82	75	64	68	73	78	79	82	72	59	78.5
	Minimum...	69	70	63	61	67	66	61	45	41	40	44	60	69	66	65	58	56	64	64	64	64	57	48	42	35	38	51	58	59	51	56.2
Indian Mills.....	Maximum...	80	91	90	80	86	78	80	72	70	74	74	68	70	75	82	80	74	70	66	72	72	71	63	62	60	73	72	70	68	58	73.4
	Minimum...	70	70	70	64	66	64	62	54	58	55	55	62	66	64	66	61	60	63	64	66	66	59	49	47	42	50	58	60	55	50	59.9
Lakewood.....	Maximum...	88	92	92	86	89	85	81	75	74	77	75	69	78	75	83	79	76	69	69	77	81	74	67	63	65	74	77	80	72	64	76.9
	Minimum...	68	70	65	63	65	59	57	50	47	48	49	61	69	70	65	60	57	64	64	63	57	50	46	39	45	53	57	61	50	50	57.9
Lambertville.....	Maximum...	86	95	93	82	87	85	80	72	75	83	84	74	75	77	83	82	82	74	70	78	77	75	68	65	69	76	77	75	68	59	77.5
	Minimum...	66	66	62	61	59	60	64	48	50	45	46	56	64	65	66	59	57	63	62	64	66	57	47	43	37	42	51	58	54	47	56.2
Layton.....	Maximum...	83	91	88	80	84	82	77	71	67	79	81	62	70	71	71	79	80	71	67	76	77	71	61	65	67	72	77	68	66	62	73.9
	Minimum...	60	60	65	48	58	56	57	40	50	40	38	47	37	54	61	51	40	51	60	63	61	45	44	33	32	40	42	50	50	40	49.2
Little Falls/.	Maximum...	85	94	91	84	87	86	80	74	74	80	68	74	77	85	84	80	74	70	79	77	74	66	67	67	77	78	74	71	65	74	77.4
	Minimum...	66	69	63	55	62	60	66	49	49	46	47	52	63	64	66	59	55	58	62	65	64	55	49	42	37	40	48	55	56	44	55.5
Long Branch*.....	Maximum...	85	92	92	83	88	80	80	73	73	74	74	72	74	74	82	78	74	69	68	73	80	74	61	63	65	75	76	77	71	62	75.5
	Minimum...	69	70	67	62	70	61	58	52	51	51	52	64	67	65	65	60	60	63	63	63	63	56	55	52	40	45	54	59	58	55	59.0
Long Valley/.	Maximum...	87	94	94	81	88	86	80	73	70	77	75	65	72	76	83	81	79	70	68	78	73	72	65	66	67	74	70				

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX.

OCTOBER 1944.

No. 10

GENERAL SUMMARY.

Temperature averaged slightly below normal at nearly all stations in the State. A warm period from the 6th to 8th brought the highest temperatures of the month with readings in the eighties at most stations on the 7th. There were no severe frosts prior to the 16th except in the cranberry bogs, but killing frosts occurred on the 16th and 23d in most localities, with readings in the twenties and as low as 18° at four stations. Little damage was caused by these frosts, however, due to the advanced stage of vegetation.

The average precipitation for the State was just two-thirds of the normal amount. In general, monthly totals increased progressively from north to south. The only area with near or above normal rainfall was the Seacoast and the Southern Interior extending for 25 to 30 miles inland. The principal precipitation period was the 20th-21st, when amounts ranging from one to four inches fell over the State. The first snow of the season, melting as it fell, occurred on the 27th, at a number of northern stations.

With the prevalence of mild temperature, adequate sunshine and few rainy days, conditions were unusually favorable for harvesting operations and by the close of the month, crops were mostly gathered except for corn in the shock and some late root crops. Strong winds occurred on the 10th, 14th, and 20th, but no serious damage was caused.

The State average precipitation for the year 1944 to the end of October was 37.60 inches, which is 1.67 inches below normal.

TEMPERATURE.

The monthly mean temperature of the State, as computed from observations of 41 stations, was 53.7°, which was 0.9° below normal. The highest temperature was 88° at Newark on the 7th, and the lowest, 18°, at 4 stations on the 23d. The highest monthly mean temperature was 57.8° at Cape May, and the lowest, 49.1° at Runyon.

The temperature departure from the normal for the year 1944 to date, for the State, is +0.7°.

PRECIPITATION.

The mean total precipitation of the State, as computed from observations of 59 stations, was 2.41 inches, which was 1.20 inches below normal. The greatest monthly precipitation was 5.43 inches at Hammonton, and the least, 0.50 inch at Layton. The greatest amount of precipitation in any 24 consecutive hours was 4.33 inches at Tuckerton on the 20th-21st.

The average for the Highlands was 1.45 inches; for the Red Sandstone Plain, 1.91 inches; for the Southern Interior, 2.98 inches; and for the Sea Coast, 3.51 inches.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: the Highlands, -4.67 inches; Red Sandstone Plain, +1.50 inches; Southern Interior, -0.29 inch; Sea Coast, -0.83 inch.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 3, 4, 6, 7, 10, 12, 13, 14, 19, 20, 25, 26.

THUNDERSTORMS: 7, 8, 9.

KILLING FROST: 16, 23.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.53	16	29.44	21	14.2	54	e.	20	83	66	72	71	256
Long Branch.....	30.54	31	29.45	21	13.2	50	n.	14	74	56	62	71	334
Trenton.....	30.53	16	29.50	21	8.7	43	nw.	10	79	54	69	63	323

COMPARATIVE DATA FOR OCTOBER.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	54.2	82	29	4.20	0	.....	.....	.....	.....
1886.....	55.6	88	21	3.22	0	.....	.....	.....	.....
1887.....	52.3	89	21	2.61	0	.....	.....	.....	.....
1888.....	49.2	73	25	4.73	0	12	.....	.....	.....
1889.....	50.8	82	23	3.80	0	11	.....	.....	.....
1890.....	53.9	81	24	6.33	0	13	9	.....	14
1891.....	52.8	92	18	3.44	0	8	11	11	9
1892.....	53.6	85	21	0.52	0	4	14	12	5
1893.....	55.2	85	17	4.22	0	7	15	7	9
1894.....	55.3	87	27	5.67	0	10	12	7	12
1895.....	49.9	83	18	3.60	0	5	19	7	5
1896.....	51.5	82	21	2.24	0	8	11	8	12
1897.....	55.8	95	22	2.43	0	7	14	8	9
1898.....	56.5	88	24	5.76	0	10	13	9	9
1899.....	56.6	86	18	2.72	0	6	13	10	8
1900.....	59.9	92	19	3.70	0	10	10	8	13
1901.....	54.4	82	21	1.98	0	4	17	8	6
1902.....	56.0	80	20	6.39	0	8	15	7	9
1903.....	55.9	86	24	8.92	0	8	13	9	9
1904.....	51.9	89	15	3.78	0	5	20	6	5
1905.....	55.5	90	17	2.71	0	7	18	7	6
1906.....	55.0	80	11	4.46	0	11	8	9	14
1907.....	50.6	80	18	4.46	0	7	22	5	4
1908.....	57.3	92	19	2.71	0	8	15	5	11
1909.....	51.2	84	18	1.18	0	8	17	7	7
1910.....	57.2	90	18	3.15	0	7	15	8	8
1911.....	53.9	80	18	5.49	0	12	10	9	12
1912.....	57.0	88	25	3.30	0	5	17	8	6
1913.....	57.8	83	25	7.79	0	11	12	9	10
1914.....	58.1	88	19	1.99	0	5	13	9	9
1915.....	56.2	84	23	3.03	0	9	17	7	7
1916.....	55.1	92	23	1.37	0	4	18	8	5
1917.....	50.7	84	22	6.99	0	10	15	8	8
1918.....	57.0	84	22	1.25	0	8	16	9	6
1919.....	59.0	92	25	3.43	0	13	9	8	14
1920.....	59.0	87	28	1.80	0	5	20	5	6
1921.....	54.1	82	16	0.97	0	5	18	7	6
1922.....	56.6	92	18	1.48	0	7	19	6	6
1923.....	53.9	81	21	4.25	0	8	16	8	7
1924.....	54.4	84	16	0.31	0	1	23	6	2
1925.....	49.1	84	12	4.59	0	11	9	9	13
1926.....	53.1	90	17	4.08	0	11	13	8	10
1927.....	56.8	94	23	7.82	0	10	18	5	8
1928.....	56.1	90	16	1.19	0	6	17	9	5
1929.....	52.3	80	17	4.61	0	8	15	8	8
1930.....	52.6	89	12	1.95	0	6	17	7	7
1931.....	58.3	92	24	2.76	0	8	17	7	7
1932.....	56.2	89	21	5.85	0	10	13	6	12
1933.....	53.6	84	18	2.04	T	6	18	7	6
1934.....	52.6	82	21	2.49	T	6	17	6	8
1935.....	54.8	84	23	4.50	0	8	18	7	6
1936.....	55.6	82	9	3.40	0	8	15	6	10
1937.....	53.2	84	15	5.27	T	10	12	7	12
1938.....	56.2	93	24	2.47	0	7	19	5	7
1939.....	54.9	93	19	4.24	0	9	14	6	11
1940.....	51.0	82	11	2.86	0.7	8	15	7	9
1941.....	58.9	97	17	1.90	0	8	15	7	9
1942.....	56.1	87	21	3.43	0	9	15	6	10
1943.....	53.5	87	18	7.51	0	11	12	7	12
1944.....	53.7	88	18	2.41	0	6	18	5	8
Period.....	54.6	97	9	3.61	0	8	15	8	8

Climatological Data for October 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City	Atlantic	8	71	57.2	+0.3	79	7	36	28	4.01	+0.81	3.50	20-21	0	8	16	5	10	nw.	U. S. Weather Bureau.
Barneget City	Ocean	36	5	56.0	.....	77	7	36	28	.....	.....	.....	.....	0	6	.....	.....	.....	n.	U. S. Coast Guard.
Belleplain	Cape May	49	50	.....	.....	85	7	.....	.....	4.15	+1.25	2.63	20-21	0	11	18	6	7	n.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	3	.....	.....	.....	.....	.....	.....	4.86	.....	2.40	20	0	8	.....	.....	.....	nw.	City Water Dept.
Belvidere	Warren	289	52	52.9	-2.0	86	7	25	23	1.85	-1.97	1.47	21	T.	6	19	4	8	.....	Miss C. S. Hixson.
Berlin	Camden	70	3	.....	.....	.....	.....	.....	.....	1.20	.....	0.80	20	0	4	20	3	8	.....	Samuel H. McCulley.
Boonton	Morris	280	54	51.0	-1.2	84	7	23	23	1.33	-2.58	0.98	20-21	0	6	15	3	13	nw.	John Kline.
Bridgeton	Cumberland	30	61	54.8	-2.1	84	7	30	16†	2.26	-0.84	0.95	20-21	0	6	20	2	9	nw.	Bennett K. Matlack.
Brooklawn	Camden	30	3	.....	.....	.....	.....	.....	.....	1.91	.....	1.14	20-21	0	6	.....	.....	.....	.....	C. D. Scott.
Burlington	Burlington	12	58	55.6	-1.6	78	7	29	23	1.68	-1.81	0.97	21	0	7	18	6	7	sw.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	14	49.6	-2.8	81	7	19	23	1.75	-1.69	1.23	20-21	0	5	20	5	6	sw	N. J. Water Policy Comm.
Cape May	Cape May	17	56	57.8	-1.8	78	7	33	27†	2.44	-0.86	1.96	20	0	9	17	6	8	nw.	Naval Air Station.
Charlotteburg††	Passaic	760	52	50.5	-0.9	85	7	18	23	1.84	-2.57	1.30	20-21	0	4	15	2	14	w.	Newark Water Dept.
Chatham	Morris	185	40	.....	.....	.....	.....	.....	.....	1.76	-2.35	1.10	20-21	0	7	15	6	10	.....	Edward P. Molitor.
Chatsworth	Burlington	90	4	53.4	.....	87	7	21	16†	3.35	.....	2.40	20-21	0	5	17	5	9	w	Alfred L. Stevenson.
Clayton	Gloucester	120	31	55.2	-1.2	86	8	26	16†	2.51	-0.65	1.17	21	0	5	15	6	10	n.	Worthy Hitt.
Clinton	Hunterdon	300	1	.....	.....	.....	.....	.....	.....	1.64	.....	1.11	20-21	0	8	19	5	7	nw.	L. W. Klockner.
Culvers Lake††	Sussex	760	43	.....	.....	.....	.....	.....	.....	1.13	-2.48	0.73	21	0	4	.....	.....	.....	.....	L. S. Depue.
Dover	Morris	600	60	50.4	-1.0	82	7	25	23	1.76	-2.38	1.18	20-21	0	5	14	11	6	.....	William C. Harris.
Elizabeth	Union	34	65	55.0	-0.2	81	8	27	16†	2.47	-1.48	2.10	20-21	0	8	19	4	8	nc.	Union County Park Comm.
Flamington	Hunterdon	140	58	55.6	0.0	87	7	27	16†	1.63	-1.88	1.26	20-21	0	6	22	2	7	sw.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120		53.6	.....	85	7	30	16†	2.48	.....	1.57	20	0	8	12	9	10	nw.	A. A. B. Weather Station.
Freehold	Monmouth	194	40	53.3	-2.0	85	7	27	16	3.33	-0.35	2.17	20-21	0	9	21	2	8	w.	Moreau Plant Co.
Hammonton	Atlantic	95	58	55.4	-1.0	84	8	26	16†	5.43	+1.58	2.40	20-21	0	7	15	6	10	ne.	J. G. Wilson.
Hightstown	Mercer	110	51	53.6	-1.3	85	7	28	16†	1.82	-1.88	1.09	21	T.	5	20	4	7	nw.	James R. Pickering.
Indian Mills††, 2 mi. W	Burlington	100	55	53.8	-1.5	86	7	22	23	2.49	-1.20	1.31	20-21	0	7	18	6	7	nw.	Edward Entwistle.
Jersey City	Hudson	81	46	53.9	-2.5	84	7	34	28	2.64	-1.46	1.10	20	0	6	16	7	8	nw.	J. C. Water Dept.
Lakewood	Ocean	54	40	54.0	-0.4	85	7	27	23	4.26	+0.46	3.30	20-21	0	7	14	7	10	nw	R. W. Holman.
Lambertville	Hunterdon	75	57	53.2	-1.2	85	7	28	16†	1.89	-1.66	1.10	20-21	0	7	18	4	9	nw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex	480	43	50.0	-0.9	84	7	18	23	0.50	-3.25	0.19	13-14	0	7	17	4	10	w.	A. M. Depue.
Little Falls	Passaic	157	41	52.8	-1.3	86	7	25	23	1.56	-3.03	1.09	20-21	0	6	19	5	7	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	36	54.3	-0.9	87	7	29	16	3.53	-0.86	2.25	20	0	6	18	5	8	w.	Storm Warn. Display Sta.
Long Valley	Morris	660	11	49.8	-1.9	83	7	18	23	1.71	-1.64	1.07	21	0	6	20	4	7	w.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	3	.....	.....	.....	.....	.....	.....	2.20	.....	1.33	20-21	0	7	19	3	9	nw.	David Griscom.
Mays Landing	Atlantic	50	0	.....	.....	.....	.....	.....	.....	3.09	.....	2.66	21	0	8	.....	.....	.....	.....	Elmer Earle.
Millville	Cumberland	60	4	.....	.....	.....	.....	.....	.....	2.69	.....	1.57	20	0	6	19	5	7	.....	Paul Ritchie.
Moorestown	Burlington	62	81	53.1	-1.8	85	7	28	16†	2.09	-1.39	1.47	20-21	0	7	20	2	9	nw.	Japanese Beetle Laboratory
Morris Plains	Morris	500	3	.....	.....	.....	.....	.....	.....	2.35	.....	1.53	20-21	0	6	21	4	6	.....	James C. Long.
Newark	Essex	10	90	54.5	-1.1	88	7	31	16†	2.35	-2.01	2.07	20-21	0	6	17	7	7	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	90	54.8	0.0	83	7	27	23	1.94	-1.88	1.63	20-21	0	5	21	4	6	nw.	N. J. Experiment Station.
New Milford††	Bergen	12	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hackensack Water Co.
Newton	Sussex	769	61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Irving J. Kern.
Orange††	Essex	140	4	.....	.....	.....	.....	.....	.....	1.58	.....	0.96	20	0	7	.....	.....	.....	.....	County Engineer.
Paterson	Passaic	95	73	52.4	-2.7	86	8	28	16†	1.01	-3.10	0.47	21	0	5	20	4	7	sw.	J. W. Cook.
Pemberton	Burlington	55	15	56.3	+0.6	86	7	28	16†	2.23	-1.10	1.54	20-21	0	6	22	1	8	nw	Charles A. Doehlert.
Phillipsburg	Warren	182	56	52.2	-1.3	83	7	25	23	1.59	-2.01	0.86	20	T.	7	20	5	6	.....	Town Engineer.
Plainfield	Union	120	56	54.0	0.0	86	7	27	23	1.99	-2.09	1.55	21	0	6	14	9	8	n.	S. K. Pearson.
Plainsboro	Middlesex	110	3	.....	.....	.....	.....	.....	.....	1.69	.....	1.44	20-21	0	3	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††	Atlantic	8	46	53.9	-0.9	84	7	24	16†	5.36	+2.03	4.00	20-21	0	8	20	4	7	nw.	N. J. Water Policy Comm.
Rahway	Union	20	5	.....	.....	.....	.....	.....	.....	2.25	.....	1.35	20	0	4	15	12	4	ne.	Louis Fontenelli.
Ridgefield	Bergen	80	27	53.2	-0.6	87	7	27	23	2.56	-1.67	1.67	20-21	T.	7	19	4	8	nw.	George P. Kirsten.
Runyon††	Middlesex	18	21	51.7	-1.1	80	7	18	23	2.04	-1.74	1.66	21	0	4	20	2	9	w.	N. J. Water Policy Comm.
Rutherford	Bergen	51	0	.....	.....	.....	.....	.....	.....	2.08	.....	1.67	20-21	0	8	14	9	8	n.	Harold Scott.
Sandy Hook	Monmouth	15	46	56.2	.....	83	7	38	28	2.69	.....	1.75	20	0	6	.....	.....	.....	.....	U. S. Coast Guard.
Somerville	Somerset	385	61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Norbert Larky.
Sussex	Sussex	450	49	51.4	-1.5	85	7	22	23	1.21	-2.15	0.82	20-21	T.	7	15	6	10	sw.	Marshall Hunt.
Toms River	Ocean	33	23	.....	.....	.....	.....	.....	.....	4.89	+0.83	4.00	20-21	0	5	.....	.....	.....	.....	Robt. F. Snyder.
Trenton	Mercer	56	72	55.0	-0.6	84	7	34	16†	1.57	-1.21	1.02	20-21	T.	7	17	6	8	nw	U. S. Weather Bureau.
Trenton No. 2	do.	105	14	54.4	.....	85	7	31	16	1.83	.....	0.83	20	0	8	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton	Ocean	23	51	56.6	+0.1	84	7	30	16	5.03	+1.41	4.33	20-21	0	6	20	2	9	nw.	John H. Brown.
Vineland	Cumberland	110	64	.....	.....	.....	.....	.....	.....	2.71	-0.33	1.20	20-21	0	7	19	4	8	w	Robert Jones.
Westfield	Union	145	5	.....	.....	.....	.....	.....	.....	2.00	.....	1.54	20-21	0	4	19	3	9	sw.	Town Engineer.
Woodcliff Lake††	Bergen	103	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hackensack Water Co.
Woodstown	Salem	16	9	.....	.....	.....	.....	.....	.....	1.80	.....	1.00	20	0	3	19	5	7	nw.	Geo. S. Keen.
New York, N. Y.		10	74	56.3	0.0	83	7	35	28	3.44	-0.09	2.57	20-21	T.	6	18	5	8	n.	U. S. Weather Bureau.
Philadelphia, Pa.		10	74	54.7	-0.8	85	7	31	23	1.81	-1.00	1.16	20-21	0	7	15	7	9	nw.	U. S. Weather Bureau.
For the State				53.7	-0.9	88	7	18	23	2.41	-1.20	4.33	20-21	T.	6	18	5	8	nw	

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. ††Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also.

§Length of precipitation record; temperature record is much shorter.

*Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for October 1944

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast			.28			T.	.01	.02	T.	T.			.09	.02						3.23	.34							.02				4.01	
Barneget City ⁴	do.																																	
Belleplain	Tuckahoe	.13		.28	T.				.35		.10			.05	.03							.50	2.63	T.					.08				4.15	
Belmar ²	Coast			.04	.01	T.	T.	T.	.06					.24	.01							2.40	2.00						.10				4.86	
Belvidere	Delaware			T.				.05	.04	.16				T.	.10							.03	1.47						T.				1.85	
Berlin	Mullica							.10														.80	.20							.10			1.20	
Boonton ³	Passaic			T.				.08	.04						.07	T.						.98	.18						.03	T.			1.33	
Bridgeton	Delaware			.19					.17					.06								.81	.95					T.	.08				2.26	
Brooklawn	do.		.29						.18					.14								.07	1.14						.09				1.91	
Burlington	do.			.20					.10						.01							.32	.97					.01	.07				1.68	
Canoe Brook ³	Passaic						T.								.08							1.23	.36						.06	.02			1.75	
Cape May ^{2†}	Coast			.19		T.			.02	.09	.04			T.	.04	.03						1.96	.04						.03				2.44	
Charlotteburg	Passaic						.25								.14							1.30	.15										1.84	
Chatham ³	do.						.01	.01							.09							1.10	.34					.19	.02				1.76	
Chatsworth	Coast			.23											.30							* 2.65						.17					3.35	
Clayton	Delaware			.32											.29							.54	1.17					.19					2.51	
Clinton	Raritan						.07		.02	T.					.18							.13	1.11	.02				.06	.05				1.64	
Culvers Lake	do.						.10								.25								.73						.05				1.13	
Dover	Passaic						.04								.10							.42	1.18					.02					1.76	
Elizabeth	Coast						T.		.02					.02	.12							.04	2.10	.03				.06	.08				2.47	
Flemington	Raritan		.04				.06								.12							.08	1.26	.07					T.				1.63	
Fort Dix, A.A.B. ²	Delaware		.21			T.	T.	T.	.09	.01				T.	.17							1.57	.34					.04	.05				2.48	
Freehold	Raritan		.08				T.	T.	.07						.51							.07	2.17	.04				.08	.13				3.33	
Hammoncton	Mullica				.18				.34	2.04				T.	.41							.71	1.69						.06				5.43	
Hightstown	Raritan		.09			T.	T.	T.						T.	.12							.37	1.09					T.	.15				1.82	
Indian Mills	Mullica		.28			T.	T.		.09		.02			T.	.29							.42	1.31					T.	.08				2.49	
Jersey City ²	Coast						.03	T.						.42	.12							1.10	.95					.02					2.64	
Lakewood	Metedeconk			.22		T.	T.		.10					.10	.12							.28	3.30					.14					4.26	
Lambertville	Delaware				.13			.10						.04	.15							.30	1.10	T.				.07					1.89	
Layton	do.	.08					.04		.05		.07				.19							T.		.03					.04				0.50	
Little Falls ³	Passaic						.01	.01							.05							.1.09	.32					.08	T.				1.56	
Long Branch ^{2†}	Coast			T.			T.		.04					.11	.02							2.25	.91					.20					3.53	
Long Valley ³	Raritan						.05	.04							.15							.1.07	.30					.10					1.71	
Marlton	Delaware		.27			T.	T.		.11		T.				.16							.25	1.33					.01	.07				2.20	
Mays Landing	Gt. Egg Harbor	.01		.24					.10					.01	.03							.2.66	.02						.02	T.			3.09	
Millville ^{2†}	Maurice		.21					.09						.54								1.57	.22						.06				2.69	
Moorestown ³	Delaware	.03			.27		T.	T.	.06		T.				.11							.1.47	.12						.03				2.09	
Morris Plains	Passaic						.34								.10							T.	1.53	.32				.05	.01				2.85	
Newark ¹	Coast					T.	T.		T.					.11	.06							1.49	.62					.02	.05				2.35	
New Brunswick	Raritan			T.			T.	T.	T.					T.	.12							.07	1.63	.09	T.				.09				1.94	
New Milford ^{2†}	Hackeusack																																	
Newton	Delaware																																	
Orange ^{2†}	Passaic							.01						.02	.04							.96	.49					.05	.01				1.58	
Paterson ²	do.						T.							.02	.04							.45	.47					.03	T.				1.01	
Pemberton	Delaware		.21						.10		T.			T.	.16							.13	1.54					T.	.09				2.23	
Phillipsburg	do.		.02			T.	.04	.03	.05	T.				T.	.04							.86	.55					T.	T.				1.59	
Plainfield	Raritan			T.		T.	.04			T.				T.	.06							.25	1.55					.03	.06				1.99	
Plainsboro	do.			.12										.13								T.	1.44										1.69	
Pleasantville ³	Coast	.21			.28				.30					.07	.04							* 4.40							.06				5.36	
Rahway ^{2†}	Rahway						T.	T.						T.	.04	.11						1.35	.75					T.		T.			2.25	
Ridgefield	Hackensack						.01							.27	.21							.28	1.67					.10	.02				2.56	
Runyon	Coast													.07	.20								1.66						.11				2.04	
Rutherford	Passaic						T.	.04				.01			.04	.08						.15	1.67					.08	.01				2.08	
Sandy Hook ^{2†}	Coast			T.			T.	T.		.01				.06	.07							1.75	.73					T.	.07				2.69	
Somerville	Raritan																																	
Sussex	Hudsou						.15		.03					T.	.08	.02						T.	.82	.07					.04					1.21
Toms River	Coast		.18											.15								.46	4.00					.10					4.89	
Trenton ^{1†}	Delaware		.15	T.	T.	T.	T.	.04	.04					.01	.21							.80	.31					T.	.05				1.57	
Trenton No. 2 ²	do.		.18		T.	T.	T.	.03	.04					.03	.15							.83	.49					T.	.08				1.83	
Tuckerton	Coast		.32						.12					.06								.14	.33	.06									5.03	
Viueland	Maurice		.22					.10		.05				.39								.68	1.20</											

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. 1 Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. 2 Precipitation for period from midnight to midnight. 3 Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. 4 Precipitation is

Daily Temperatures for October 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum... 64	70	59	62	69	68	79	76	71	68	66	67	64	68	62	60	69	68	75	64	65	57	58	64	63	46	37	58	61	61	64.6		
	Minimum... 50	53	48	51	57	65	64	59	53	58	49	49	61	62	43	38	46	48	56	55	47	41	39	51	51	46	37	36	44	40	49.7		
Barnegat City†.....	Maximum... 65	69	63	61	67	71	77	75	70	64	65	67	64	72	59	64	65	68	73	59	62	54	58	62	64	62	55	57	54	57	60	64.0	
	Minimum... 47	53	47	48	54	62	60	57	53	53	47	49	60	59	40	38	45	47	50	53	45	42	38	45	46	45	37	36	45	39	51	48.1	
Belleplain.....	Maximum... 69	73	61	62	72	76	85	82	73	71	68	72	68	68	65	60	68	75	73	57	55	55	61	66	70	63	52	36	57	60	68	66.5	
	Minimum... 46	51	45	46	54	64	58	61	47	48	45	42	54	58	45	30	42	40	47	47	45	39	30	37	40	45	37	36	44	40	48	49.7	
Belvidere.....	Maximum... 74	73	63	60	63	71	86	76	68	73	69	70	76	66	59	63	71	72	63	55	48	55	62	66	68	65	52	38	33	32	32	66	65.4
	Minimum... 36	43	45	40	52	60	60	57	44	42	38	40	43	56	38	26	31	33	45	37	43	37	25	30	33	41	38	33	43	32	32	40.4	
Boonton/......	Maximum... 72	72	62	61	65	71	84	76	71	69	69	69	63	67	55	61	69	79	69	53	50	54	62	65	67	63	50	57	52	58	65	64.5	
	Minimum... 40	42	44	32	39	53	56	55	41	40	37	38	38	49	40	25	25	37	38	33	39	41	23	28	30	31	41	29	31	40	31	37.6	
Bridgeton.....	Maximum... 67	71	65	60	70	76	84	74	72	65	65	70	68	68	61	57	65	73	72	61	55	53	61	65	68	62	56	57	56	57	65	65.1	
	Minimum... 46	51	45	46	54	64	58	61	47	48	45	42	54	58	45	30	42	40	47	47	45	39	30	37	40	45	38	34	33	38	44	46.6	
Burlington.....	Maximum... 71	74	70	60	68	73	78	70	72	65	65	72	70	66	60	57	64	69	73	68	52	53	56	68	71	75	58	56	54	60	70	65.8	
	Minimum... 44	51	49	49	53	63	60	60	51	52	45	50	48	56	46	31	41	36	49	45	45	41	29	34	38	58	41	33	41	33	35	45.5	
Canoe Brook /.....	Maximum... 73	72	59	62	65	72	84	76	73	70	68	70	62	64	56	59	67	76	70	52	46	56	60	64	70	72	51	60	47	63	61	64.5	
	Minimum... 30	36	40	31	38	54	57	52	37	37	30	38	41	49	39	20	29	27	37	29	38	33	19	26	32	44	30	23	34	27	27	34.6	
Cape May*.....	Maximum... 66	72	58	64	68	69	78	73	74	65	64	68	65	68	64	59	63	72	71	64	64	54	59	62	64	62	50	55	58	46	54	51.5	
	Minimum... 51	53	49	49	59	65	65	59	54	54	51	50	62	62	42	41	51	54	58	58	50	44	11	53	52	50	38	38	38	46	44	54.5	
Charlotteburg.....	Maximum... 69	69	68	67	69	70	85	84	74	68	70	68	65	66	64	60	68	79	68	60	50	52	60	64	68	67	50	56	56	55	60	65.7	
	Minimum... 30	37	40	40	26	45	53	56	34	34	31	31	38	53	35	28	32	31	46	27	41	36	18	23	28	37	34	23	47	37	23	35.8	
Chatsworth.....	Maximum... 69	72	65	60	72	73	87	79	74	70	63	71	63	69	66	60	65	79	72	61	53	54	64	68	71	65	65	54	59	67	66.6		
	Minimum... 40	44	44	46	33	63	56	60	39	46	36	35	51	57	43	21	35	29	37	43	46	36	21	28	32	41	36	31	42	28	30	40.3	
Clayton.....	Maximum... 73	72	68	58	69	75	81	86	78	69	68	73	68	63	64	69	68	78	74	68	62	64	63	67	71	68	61	59	61	60	68	68.6	
	Minimum... 42	45	43	46	54	64	57	44	42	46	41	39	54	57	52	26	39	36	44	44	46	35	33	37	34	37	32	33	31	35	41.7		
Dover.....	Maximum... 67	68	56	60	63	70	82	73	67	65	63	66	63	64	57	59	66	75	66	50	47	51	59	62	65	60	45	54	48	57	63	61.6	
	Minimum... 34	42	37	32	51	58	61	53	42	38	38	37	43	55	32	26	35	33	43	33	42	33	25	32	42	35	48	40	36	27	39.1		
Elizabeth.....	Maximum... 75	76	64	63	65	72	78	81	75	73	72	73	64	67	62	63	71	79	75	61	51	59	64	68	70	68	55	64	57	63	65	67.5	
	Minimum... 42	45	46	36	53	60	60	58	45	44	39	41	57	56	40	27	38	38	45	50	45	36	27	31	35	43	38	31	42	30	35	42.5	
Flemington.....	Maximum... 73	73	68	62	64	73	87	81	74	74	75	74	67	71	67	66	75	84	71	61	53	58	66	68	72	66	56	59	58	67	68	68.7	
	Minimum... 42	49	46	38	53	60	58	60	47	41	43	40	49	56	40	27	41	35	48	42	45	37	27	30	35	43	39	32	42	38	32	42.4	
Fort Dix, A. A. B.*.....	Maximum... 68	71	50	58	68	70	85	75	70	68	67	71	65	67	58	59	65	75	71	55	53	53	61	67	70	62	46	55	53	59	67	63.9	
	Minimum... 44	50	41	45	54	63	59	50	48	46	44	38	53	56	37	30	41	47	44	44	44	35	30	34	38	43	37	33	42	35	34	43.2	
Freehold.....	Maximum... 70	72	64	62	67	71	85	77	73	70	69	70	62	66	61	60	67	76	70	59	53	54	64	66	71	62	55	57	53	59	66	65.5	
	Minimum... 38	44	42	37	50	59	58	58	44	43	38	39	51	54	39	27	36	38	46	43	43	34	29	36	37	44	34	28	41	32	33	41.1	
Hammonton.....	Maximum... 72	74	58	59	69	76	80	84	75	77	69	74	67	70	68	64	68	79	75	68	68	56	65	69	72	66	62	51	64	65	71	68.9	
	Minimum... 41	50	43	46	51	61	59	44	41	44	38	38	51	55	42	26	36	36	42	43	45	37	26	36	35	42	36	32	42	32	41.8		
Hightstown.....	Maximum... 70	73	60	61	65	71	85	76	71	69	69	73	63	67	62	59	66	77	72	58	53	55	62	68	72	65	56	57	54	60	68	65.7	
	Minimum... 39	46	43	36	52	61	61	58	44	42	38	38	50	56	40	28	36	36	47	41	45	36	28	33	35	43	36	32	42	33	32	41.5	
Indian Mills.....	Maximum... 71	74	64	58	70	75	89	77	74	70	70	74	65	68	60	60	68	79	73	73	55	55	64	69	73	64	52	56	55	61	68	66.6	
	Minimum... 41	45	44	46	54	64	57	60	47	41	33	34	52	57	43	23	34	32	47	45	46	37	22	31	33	43	36	32	44	29	29	41.1	
Jersey City*.....	Maximum... 66	70	56	60	62	70	84	75	70	68	65	66	60	64	58	58	65	74	68	54	47	55	60	60	60	62	44	55	49	58	58	62.0	
	Minimum... 44	49	46	40	54	62	63	60	52	49	46	46	52	54	39	36	46	46	48	44	43	42	36	43	41	44	38	34	40	40	44	45.8	
Lakewood.....	Maximum... 69	72	67	61	67	72	85	76	73	69	67	69	61	66	60	59	65	77	72	58	55	54	63	66	69	61	55	57	54	58	65	65.2	
	Minimum... 40	46	45	36	53	62	60	62	45	49	39	39	52	56	45	28	41	39	52	47	45	36	27	31	35	44	36	31	44	32	32	42.9	
Lambertville.....	Maximum... 72	72	66	59	65	73	85	77	68	66	67	70	64	66	62	61	63	76	72	59	50	55	63	59	70	64	57	59	54	62	67	65.3	
	Minimum... 38	46	44	40	51	60	55	58	47	44	40	39	48	56	40	28	35	34	40	39	44	37	28	30	35	43	37	30	43	32	29	41.0	
Layton.....	Maximum... 71	62	64	60	69	70	84	75	68	67	67	69	65	66	60	64	62	77	64	53	48	53	61	63	67	62	58	57	51	57	63	63.8	
	Minimum... 33	40	38	30	41	59	61	52	40	38	35	41	50	50	30	19	29	26	37	26	41	36	18	24	31	34	35	30	39	33	26	36.2	
Little Falls /.....	Maximum... 72	73	62	60	66	71	86	78	72	71	71	71	63	72	54	62	71	79	69	54	55	57	63	67	70	65	49	62	53	58	62	65.8	
	Minimum... 37	42	44	34	41	55	57	57	42	41	37	39	41	54	40	27	36	34	47	37	44	41	25										

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THE LIFE OF THE

JAN 3 1945

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX.

NOVEMBER 1944.

No. 11

GENERAL SUMMARY.

The first four days were warm and the first half of the month was comparatively mild, averaging about 3° above normal, though hard freezing occurred on several nights near the last of the period. The latter half of the month was considerably colder than normal so that the month as a whole averaged near normal for the State. The coldest weather was from the 23-27th with lowest temperatures generally on the 24th and 26th.

This was the wettest November since 1932 and one of the five wettest of record in New Jersey. Average precipitation was a little more than twice the normal amount. It was heaviest at stations on or near the coast and in the Red Sandstone Plain area. The State average this month, 6.44 inches was the greatest for any month this year except September which had 7.93 inches. As a result of the excess of rainfall for the three months period, September to November, ground water supplies have been quite thoroughly replenished. Heavy snowfall for the season occurred on the 20-21st in the extreme northern part of the State. While the greatest depth reported at cooperative stations was 7.0 inches at Newton and Charlotteburg, State Highway employees reported much greater depths in the higher elevations of Sussex and Morris Counties. Outside of the Highlands area, only traces of snowfall were generally recorded. Gale winds were registered in coastal areas on the 20th and 30th, but were not of sufficient force to cause serious damage.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 42 stations, was 43.9°, which was 0.2° above normal. The highest temperature was 76° at Hammon-ton on the 9th, and the lowest, 13°, at Charlotteburg on the 24th. The highest monthly average temperature was 47.3° at Cape May, and the lowest, 40.2° at Layton.

The temperature departure from the normal for the year 1944 to date, for the State, is +0.5°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 63 stations, was 6.44 inches, which was 3.24 inches above normal. The average total snowfall at 30 selected stations was 0.9 inch, which was 0.4 inch below normal. The greatest monthly precipitation was 9.45 inches at Pleasantville, and the least, 3.23 inches at Layton. The greatest amount of precipitation in any 24 consecutive hours was 3.53 inches at Pleasantville on the 20-21st.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: the Highlands, -2.81 inches; Red Sandstone Plain, +5.24 inches; Southern Interior, +3.17 inches; Sea Coast, +3.06 inches.

The average for the Highlands was 5.16 inches; for the Red Sandstone Plain, 6.76 inches; for the Southern Interior, 6.38 inches; and for the Sea Coast, 7.10 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 1, 2, 3, 4, 5, 16, 20, 21, 27, 30.
THUNDERSTORMS: 15.
SLEET: None.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.55	1	29.24	30	15.8	47	n.	20	84	69	75	57	553
Long Branch.....	30.56	1	29.16	30	13.5	48	w.	30	75	62	68	52	610
Trenton.....	30.55	1	29.29	30	9.3	27	w.	30	79	59	69	50	597

COMPARATIVE DATA FOR NOVEMBER.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	44.8	76	18	4.53					
1886.....	44.5	73	17	4.49					
1887.....	41.5	72	13	1.94		6			
1888.....	45.8	77	8	3.97		10			
1889.....	45.7	69	13	8.48		13			
1890.....	43.8	74	11	0.82		8	13	12	5
1891.....	42.2	70	6	2.39		4	12	10	8
1892.....	41.9	71	12	7.29		11	8	9	13
1893.....	41.8	70	11	3.48		7	10	11	9
1894.....	40.3	76	11	3.34		10	13	7	10
1895.....	45.7	80	12	3.17	0	10	12	7	11
1896.....	48.2	78	12	3.05	3.2	8	9	9	12
1897.....	43.8	74	10	4.59	1.3	12	8	11	11
1898.....	42.4	70	11	6.76	14.7	14	10	9	11
1899.....	44.0	71	17	2.29	1.1	7	15	8	7
1900.....	47.5	79	15	3.43	T.	9	9	10	11
1901.....	38.5	69	10	2.38	0.8	6	12	9	9
1902.....	49.3	80	20	2.20	0.2	8	10	11	9
1903.....	39.9	79	3	1.26	T.	6	16	8	6
1904.....	40.2	69	6	2.18	1.6	6	12	10	8
1905.....	42.1	70	6	1.84	0.1	6	12	10	8
1906.....	43.6	70	8	1.61	2.3	6	16	7	7
1907.....	43.5	68	13	5.65	0.8	13	10	8	12
1908.....	43.1	72	2	0.96	2.2	4	14	8	8
1909.....	46.4	80	12	2.36	2.1	8	13	8	9
1910.....	40.4	71	13	3.79	1.4	9	5	13	12
1911.....	41.3	73	13	5.17	1.7	10	8	11	11
1912.....	45.3	76	11	3.43	1.3	6	15	8	7
1913.....	46.2	77	21	2.71	T.	7	14	7	9
1914.....	43.3	80	6	2.60	0.7	6	16	8	6
1915.....	44.0	75	17	1.69	0	8	14	8	8
1916.....	43.3	75	12	2.11	T.	8	16	5	9
1917.....	39.8	68	9	0.56	0.7	3	19	5	6
1918.....	43.9	71	12	1.87	0	7	14	6	10
1919.....	43.7	76	13	3.74	T.	11	13	7	10
1920.....	43.0	74	12	4.41	0.2	10	9	6	15
1921.....	44.3	79	18	4.26	0.1	14	9	6	15
1922.....	44.3	73	13	0.91	0.2	6	13	8	9
1923.....	43.1	72	11	2.51	0	7	11	8	11
1924.....	42.9	77	1	2.03	1.3	5	14	8	8
1925.....	42.0	76	10	3.40	0.7	9	14	8	8
1926.....	42.5	76	8	4.04	T.	9	13	8	9
1927.....	47.9	78	15	4.02	0.1	11	10	8	12
1928.....	45.1	78	13	1.90	0.3	9	10	9	11
1929.....	44.5	83	4	2.73	0.4	10	10	7	13
1930.....	44.1	73	2	3.70	0.2	9	12	6	12
1931.....	50.3	80	14	0.82	1.6	6	12	7	11
1932.....	42.0	71	3	7.81	T.	9	14	6	10
1933.....	40.6	78	7	1.01	0.6	7	13	7	10
1934.....	47.3	80	10	2.91	0.1	11	12	6	12
1935.....	47.8	78	8	4.95	2.1	13	7	6	17
1936.....	41.1	80	3	1.18	1.3	6	14	7	9
1937.....	43.7	72	10	4.56	0.2	9	16	5	9
1938.....	45.6	80	-7	3.42	12.6	12	14	6	10
1939.....	41.5	78	12	1.86	0.2	4	17	6	7
1940.....	43.5	76	10	4.66	1.0	10	8	7	15
1941.....	46.8	78	13	2.90	0	5	17	7	6
1942.....	44.9	78	12	4.14	T.	10	14	7	9
1943.....	42.4	73	9	2.89	T.	6	15	8	7
1944.....	43.9	76	13	6.44	0.9	9	10	8	12
Period.....	43.7	83	-7	3.20	1.3	8	12	8	10

Climatological Data for November 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches						No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy			
Atlantic City.....	Atlantic.....	8	71	46.6	+1.0	64	8	30	26	9.06	+6.24	3.49	27-28	T.	9	5	11	14	nw.	U. S. Weather Bureau.	
Barnegat City.....	Ocean.....	36	5	45.9	.....	62	1	30	23†	6.01	.....	2.04	21	.....	9	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	50	71	1	7.56	+5.02	2.00	27-28	0	8	15	7	8	nw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	3	.....	.....	.....	.....	.....	.....	7.43	.....	2.05	21	.....	14	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	52	41.8	+0.4	65	2	22	24†	4.97	+1.78	1.46	27	T.	9	15	6	9	.....	Miss C. S. Hixson.
Berlin.....	Camden.....	70	3	.....	.....	.....	.....	.....	.....	4.66	.....	1.20	27	.....	7	15	7	8	.....	Samuel H. McCulley.
Boonton.....	Morris.....	280	54	42.0	+0.6	69	3	20	24	6.71	+3.70	1.62	20-21	.....	10	12	3	15	nw	John Kline.
Bridgeport.....	Cumberland.....	30	61	45.2	-0.5	74	1	24	26	5.32	+2.72	1.93	27	0	9	13	6	11	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	3	.....	.....	.....	.....	.....	.....	4.92	.....	1.30	27	.....	8	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	58	45.6	-0.1	74	1	24	24	6.14	+3.16	2.40	20-21	T.	10	13	5	12	w.	Public Service E. & G. Co.	
Canoe Brook††.....	Essex.....	180	14	41.0	-0.7	69	3	17	26	7.29	+3.70	2.00	21	.....	9	10	8	12	nw.	N. J. Water Policy Comm.
Cape May.....	Cape May.....	17	56	47.3	-0.1	66	1	30	26	5.95	+2.73	2.44	27	T.	9	9	6	15	nw.	Naval Air Station.	
Charlotteburg††.....	Passaic.....	760	52	41.0	+0.3	69	3	13	24	6.31	+2.69	2.80	20-21	7.0	10	10	3	17	nw.	Newark Water Dept.
Chatham.....	Morris.....	185	40	.....	.....	.....	.....	.....	.....	7.12	+3.68	1.70	20-21	.....	9	10	8	12	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	4	43.0	.....	70	1	18	23†	6.84	.....	2.50	27-28	.....	5	13	11	6	nw.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	31	45.4	+1.0	73	1	21	26	5.97	+3.25	1.50	20-21	0	8	10	6	14	n	Worthy Hitt.
Clinton.....	Hunterdon.....	300	1	.....	.....	.....	.....	.....	.....	6.38	.....	2.02	20-21	T.	10	10	5	15	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	43	.....	.....	.....	.....	.....	.....	4.89	+1.79	2.07	20-21	.....	6.0	8	.....	.....	.....	L. S. Depue.
Dover.....	Morris.....	600	60	41.0	+0.3	66	3	21	26	6.12	+2.57	2.22	20-21	4.0	9	6	14	10	William C. Harris.
Elizabeth.....	Union.....	31	65	45.0	+1.1	72	1	21	26	8.37	+5.45	2.58	20-21	T.	10	11	8	11	ne.	Union County Park Comm.	
Flemington.....	Hunterdon.....	140	58	44.8	+1.2	73	3	22	26	6.18	+3.23	2.08	20-21	T.	9	12	9	9	nw.	Hiram E. Deats.	
Fort Dix, A. A. B.....	Burlington.....	120	.....	44.0	.....	71	1	24	23	6.99	.....	2.59	27	T.	9	9	8	13	nw.	A. A. B. Weather Station.
Freehold.....	Monmouth.....	194	540	43.2	-1.9	71	1	21	26	7.01	+3.18	2.68	20-21	1.0	13	14	7	9	w.	Moreau Plant Co.	
Hammondu.....	Atlantic.....	95	53	45.4	+3.0	76	9	21	26	4.19	+1.15	1.78	27	T.	8	10	8	12	n.	J. G. Wilson.	
Highstown.....	Mercer.....	110	51	44.0	+0.2	73	1	23	26	5.97	+3.06	2.45	20-21	0.5	10	8	10	12	nw.	James R. Pickering	
Indian Mills††, 2 mi. W	Burlington.....	100	55	44.0	+0.1	73	3	19	26	5.77	+2.77	1.87	20-21	T.	10	8	13	9	nw.	Edward Entwistle.	
Jersey City.....	Hudson.....	81	46	43.2	-1.7	64	1†	26	26	6.91	+3.91	1.85	21	T.	10	14	9	7	nw.	J. C. Water Dept.	
Lakewood.....	Ocean.....	54	40	44.1	-0.3	68	1	24	26	8.06	+4.97	2.85	20-21	T.	9	7	11	12	w.	R. W. Holman.	
Lambertville.....	Hunterdon.....	75	57	44.9	+0.7	71	1	21	26	6.14	+3.14	1.98	20-21	T.	11	7	10	13	u.	Mabel Wollaston.	
Layton†† 3 miles NW.	Sussex.....	480	43	40.2	+0.7	67	2	16	23†	3.23	+0.16	1.43	21	3.3	12	9	2	19	ne.	A. M. Depue.	
Little Falls.....	Passaic.....	157	41	43.0	-0.1	69	3	22	24	6.27	+2.87	1.81	20-21	T.	10	12	6	12	nw.	Passaic Valley Water Co.	
Loug Branch.....	Monmouth.....	34	36	44.4	0.0	68	1	25	26	7.40	+3.84	2.60	21	1.0	9	9	6	15	nw.	Storm Warn. Display Sta.	
Loug Valley.....	Morris.....	660	14	42.2	+1.3	72	3	17	24	6.25	+2.04	1.48	27	3.0	9	11	9	10	nw.	Arthur Barkman.	
Marlton, 1 mile W.	Burlington.....	90	3	.....	.....	.....	.....	.....	.....	6.29	.....	3.03	27	.....	8	10	10	10	nw.	David Griscom.
Mays Landing.....	Atlantic.....	50	0	.....	.....	.....	.....	.....	.....	5.96	.....	2.77	27-28	.....	9	.....	.....	.....	.....	Elmer Earle.
Millville.....	Cumberland.....	69	4	.....	.....	.....	.....	.....	.....	5.23	.....	2.29	27	.....	8	14	5	11	.....	Paul Ritchie.
Mooretown.....	Burlington.....	62	81	43.8	+0.7	72	1	23	26	4.93	+2.02	2.03	27	T.	10	9	5	16	nw.	Japanese Beetle Laboratory	
Morris Plains.....	Morris.....	500	3	.....	.....	.....	.....	.....	.....	7.55	.....	2.99	20-21	T.	11	13	5	12	.....	James C. Long.
Newark.....	Essex.....	10	90	44.3	+0.5	67	1	28	24	7.41	+4.32	2.94	20-21	T.	9	4	11	15	ne.	U. S. Weather Bureau.	
New Brunswick.....	Middlesex.....	86	90	44.3	-0.4	69	1	25	26	6.76	+3.92	2.30	20-21	T.	10	12	6	12	nw.	N. J. Experiment Station.	
New Milford††.....	Bergen.....	12	26	.....	.....	.....	.....	.....	.....	6.48	+3.37	1.73	21	.....	9	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	61	41.0	+0.1	70	2	19	24†	3.41	+0.34	1.25	20-21	7.0	11	6	7	17	nw.	Irving J. Kern.	
Orange††.....	Essex.....	140	4	.....	.....	.....	.....	.....	.....	7.60	.....	2.37	21	.....	9	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	73	42.4	-1.4	70	3	22	26	6.04	+2.92	1.47	27	T.	9	8	11	11	w.	J. W. Cook.	
Pemberton.....	Burlington.....	55	15	45.7	-0.5	73	1	23	26	6.07	+2.97	1.94	20-21	0	9	14	3	13	w.	Charles A. Doeblert.	
Phillipsburg.....	Warren.....	182	561	41.8	-0.1	64	2	20	26	5.03	+2.20	1.54	27	T.	7	11	5	14	.....	Town Engineer.
Plainfield.....	Union.....	120	56	44.4	+1.5	70	1†	24	26	7.87	+4.82	3.03	20-21	T.	11	7	10	13	nw.	S. K. Pearson.	
Plainsboro.....	Middlesex.....	110	3	.....	.....	.....	.....	.....	.....	6.72	.....	2.25	20-21	T.	9	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	46	44.4	-0.6	68	1	22	26	9.45	+6.63	3.53	20-21	.....	11	8	15	7	nw.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	5	.....	.....	.....	.....	.....	.....	6.64	.....	1.87	21	T.	9	6	10	14	nw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	27	42.8	-0.2	68	1†	23	26	6.80	+3.96	2.25	20-21	T.	10	11	8	11	nw.	George P. Kirsten.	
Runyon††.....	Middlesex.....	18	21	43.0	+0.2	72	1†	14	27	7.25	+4.22	1.90	21	.....	9	12	9	9	w.	N. J. Water Policy Comm.
Rutherford.....	Bergen.....	51	0	.....	.....	.....	.....	.....	.....	7.07	.....	2.35	20-21	T.	10	5	12	13	n.	Harold Scott.
Sandy Hook.....	Monmouth.....	15	46	45.7	-0.1	64	1	31	26†	6.72	+3.47	1.81	21	.....	10	.....	.....	.....	.....	U. S. Coast Guard.
Somerville.....	Somerset.....	385	61	43.1	+0.3	70	3	21	26	6.08	+3.11	2.10	20-21	0.5	8	9	7	14	nw.	Norbert Larky.	
Sussex.....	Sussex.....	450	49	44.0	+2.6	68	1†	17	24	6.22	+3.40	2.10	20-21	3.5	12	8	4	18	nw.	Marshall Hunt.	
Toms River.....	Ocean.....	33	23	.....	.....	.....	.....	.....	.....	8.63	+4.27	3.00	20-21	.....	9	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	72	45.2	+0.8	70	1	28	26	5.22	+2.49	1.99	20-21	0.2	9	7	9	14	nw.	U. S. Weather Bureau.	
Trenton No. 2.....	.....do.....	105	14	44.8	.....	72	1	26	26	6.57	.....	1.81	21	T.	9	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	51	46.8	+1.4	70	3	28	24†	6.77	+3.77	2.46	20-21	T.	8	15	5	10	nw.	John H. Brown.	
Vineland.....	Cumberland.....	110	64	.....	.....	.....	.....	.....	.....	4.92	+2.26	2.02	27	.....	7	12	11	7	nw.	Robert Jones.
Westfield.....	Union.....	145	5	.....	.....	.....	.....	.....	.....	7.45	.....	2.10	20-21	T.	9	13	6	11	nw.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	26	.....	.....	.....	.....	.....	.....	7.00	+3.91	1.95	21	.....	9	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	9	.....	.....	.....	.....	.....	.....	5.37	.....	2.75	27	.....	5	11	11	8	w.	Geo. S. Keen.
New York, N. Y.....	.....	10	74	45.9	+1.7	70	3	29	26	7.14	+4.18	2.40	20-21	T.	9	8	9	13	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	74	45.6	+1.7	73	1	26	26	4.71	+2.01	1.95	27	T.	8	4	13	13	nw	U. S. Weather Bureau.
For the State.....	.....	.....	.....	43.9	+0.2	74	1	13	24	6.44	+3.24	3.53	21	0.9	9	10	8	12	nw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. ††Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also. ‡Length of precipitation record; temperature record is much shorter. *Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Stations	Drainage Basin	Day of month																																Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast									.14	.23					T.	T.	.03			2.03	1.57			T.			3.48	.01	.53	1.04	9.06		
Barnegat City ⁴	do									.02	.47					.04	.04				.18	2.04						1.57		.54	1.11	6.01		
Relleplain	Tuckahoe										.49										.40	1.87						1.78	2.00	.22	.68	7.56		
Belmar ²	Coast	.02	.02	.01	.02	T.				.01	T.					.05	.28	T.			1.11	2.05	.12		T.			2.24	.03	.60	.79	7.43		
Belvidere	Delaware										.65					.04	.41	.06			.33	1.30						1.46		.11	.61	4.97		
Berlin	Mullica						T.				.50					.06	T.			1.00	.80						1.20	T.	.80	.30	4.66			
Boonton ³	Passaic		T.								.54	.25					.72	.34			1.62	1.30						.09	1.38		.47	6.71		
Bridgeton	Delaware										.43	.02									.47	.96	.05					1.93	.90	.06	.50	5.32		
Brooklawn	do										.66										.12	1.13	.15					1.30	.87	.09	.60	4.92		
Burlington	do										.72										.24	2.40	.04					1.41	.45	.11	.62	6.14		
Canoë Brook ³	Passaic									T.	.63	.20					.66	.33			.20	1.11						.19	1.44		.73	7.29		
Cape May ²	Coast			T.		.01	T.				.29	T.				T.	T.	T.		2.01	.19			T.				2.44	.20	.44	.34	5.95		
Charlotteburg	Passaic									.03	.82					.02	.82	.03			.20	2.80	.33					.87	.35	.07		6.31		
Chatham ³	do			T.							.65	.24					.57	.37			1.70	1.39						.16	1.46		.58	7.12		
Chatsworth	Coast										.34						.09				.2	2.97	T.					.2	2.50		.94	6.84		
Clayton	Delaware										.42										.25	1.50	.30					1.38	1.32	.10	.70	5.97		
Clinton	Raritan				.02						.92					T.	.69				.30	2.02	.03					1.42	.29	.15	.54	6.38		
Culvers Lake	do										T.	.43					.57	.04			.20	2.07						.68	.20	T.	.70	4.89		
Dover	Passaic						.01				.89						.06	.75			.75	2.22				T.			1.42	.30		.47	6.12	
Elizabeth	Coast																																	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. ⁴ Precipitation is from 1:30 a. m. to 1:30 a. m. † Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time. *Amounts in italics are interpolated.* §§ Incomplete.

Daily Temperatures for November 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum... 63	61	63	58	59	43	55	64	60	60	56	54	55	58	56	56	48	49	46	52	48	46	45	41	48	44	56	55	51	51	53.4	
	Minimum... 55	53	50	46	39	34	34	46	51	48	35	32	34	36	47	42	39	40	36	39	35	36	33	32	31	30	43	41	41	32	39.7	
Barnegat City†.....	Maximum... 62	61	61	59	59	44	50	61	60	58	53	52	53	60	56	53	49	48	44	52	47	45	46	41	46	42	52	53	54	51	52.4	
	Minimum... 52	52	49	46	37	36	35	43	51	49	38	35	35	39	43	39	39	40	36	37	32	38	30	32	32	30	39	41	45	33	39.4	
Belleplaine.....	Maximum... 71	68	67	66	60	50	55	65	69	61	57	57	57	62	60	53	48	51	49	59	50	48	46	43	45	48	53	55	52	53	55.9	
	Minimum... 63	65	64	63	57	42	47	61	62	60	55	54	55	56	48	46	49	51	41	35	39	42	43	37	35	43	41	50	42	35	49.4	
Belvidere.....	Maximum... 40	48	42	43	42	32	42	40	37	52	39	35	25	26	36	42	35	28	31	28	29	36	25	22	29	22	27	40	30	26	34.3	
	Minimum... 66	66	69	66	55	44	52	58	57	68	62	54	57	63	50	47	49	52	50	41	40	42	43	41	42	49	46	50	42	42	52.1	
Boonton/.	Maximum... 31	40	35	36	43	34	34	36	33	33	41	35	23	27	26	32	37	34	29	25	30	34	30	20	29	25	25	33	32	35	31.9	
	Minimum... 74	68	67	63	60	49	52	64	68	60	55	50	55	59	62	55	51	46	48	43	44	46	45	42	45	44	49	53	49	52	53.9	
Bridgeton.....	Maximum... 45	48	50	45	44	31	31	37	42	53	44	28	27	28	38	48	35	29	35	33	38	35	29	28	27	24	28	42	35	38	36.6	
	Minimum... 74	67	65	65	58	47	55	64	73	71	58	64	53	60	60	51	49	51	47	46	43	45	43	42	45	45	43	53	48	49	54.5	
Burlington.....	Maximum... 40	50	48	47	46	35	34	44	41	39	43	33	35	40	40	40	38	34	30	38	33	28	27	24	31	25	25	41	35	37	36.7	
	Minimum... 68	62	69	64	56	48	54	61	59	58	55	53	59	61	52	45	55	50	45	41	38	44	45	45	46	50	44	52	42	38	52.0	
Cause Brook /.....	Maximum... 31	40	40	40	41	33	31	37	30	35	38	29	18	21	28	37	37	24	23	23	29	33	21	18	20	17	22	37	28	36	29.9	
	Minimum... 66	64	60	55	55	43	51	64	60	58	55	48	52	61	58	57	50	50	48	52	44	46	45	43	44	45	53	52	52	52	52.8	
Cape May*.....	Maximum... 54	53	51	46	40	37	40	46	50	53	38	38	39	42	48	48	42	38	36	42	40	40	40	36	33	30	42	41	39	32	41.8	
	Minimum... 67	65	69	67	65	47	54	54	56	59	55	51	54	55	60	47	45	49	49	40	38	40	44	40	39	47	46	47	46	42	51.2	
Charlotteburg.....	Maximum... 42	43	32	38	41	29	32	32	23	50	39	32	27	30	31	32	34	34	22	21	29	31	27	13	26	21	18	35	31	31	30.9	
	Minimum... 70	63	68	64	61	48	55	62	67	61	55	52	59	60	60	56	48	49	45	48	48	43	48	40	45	45	55	52	49	52	54.4	
Chatsworth.....	Maximum... 37	43	44	37	43	32	24	36	36	49	24	22	23	23	30	46	36	30	23	25	33	35	18	23	25	18	22	41	34	37	31.6	
	Minimum... 63	65	64	63	57	42	47	61	62	60	55	54	55	56	48	46	49	51	41	35	39	42	43	37	35	43	41	50	42	35	49.4	
Clayton.....	Maximum... 41	48	45	41	44	32	32	39	42	52	44	26	25	26	35	46	38	33	28	26	35	35	26	26	26	21	27	41	33	35	34.9	
	Minimum... 65	63	66	65	54	42	48	57	55	58	50	53	55	61	48	47	47	48	41	40	45	41	42	31	40	46	42	48	39	40	49.2	
Dover.....	Maximum... 39	45	38	43	37	32	38	40	33	48	36	34	28	31	36	36	36	30	28	26	30	31	25	25	28	21	24	33	29	24	32.8	
	Minimum... 72	68	70	66	60	49	57	65	60	61	57	58	62	66	54	54	57	53	48	44	45	44	48	44	47	51	45	55	45	45	55.0	
Elizabeth.....	Maximum... 39	46	49	45	40	34	31	40	30	52	39	29	25	29	38	40	49	30	29	28	34	34	22	22	25	21	26	39	38	36	34.9	
	Minimum... 71	71	73	68	60	47	57	64	65	60	57	58	62	67	57	50	50	52	45	39	41	45	44	43	47	50	42	53	48	43	54.3	
Flemington.....	Maximum... 38	48	39	44	44	35	36	40	37	48	44	34	29	28	37	41	39	33	30	28	33	35	28	26	29	22	26	39	31	35	35.3	
	Minimum... 71	66	70	58	56	42	52	62	70	61	52	53	55	60	61	52	47	48	44	48	42	43	43	40	45	46	45	52	51	51	52.9	
Fort Dix, A. A. B.*.....	Maximum... 40	46	45	43	38	34	32	42	38	47	35	32	29	35	37	41	38	34	29	28	33	31	24	30	29	26	34	37	37	29	35.1	
	Minimum... 71	67	70	61	57	46	51	60	63	61	55	53	57	63	57	56	52	49	42	48	44	42	45	40	44	48	43	52	44	50	53.0	
Freehold.....	Maximum... 38	41	38	39	41	32	28	38	40	51	41	26	24	28	40	37	40	30	27	28	30	32	26	23	25	21	28	39	36	35	33.4	
	Minimum... 71	70	72	71	59	52	55	71	76	64	58	55	59	68	65	56	52	52	55	44	58	46	45	48	48	50	54	51	50	41	57.2	
Hammonton.....	Maximum... 36	43	41	45	41	32	27	41	43	51	43	27	26	27	39	41	36	27	25	28	32	37	29	24	21	21	25	35	34	30	33.7	
	Minimum... 73	66	71	62	56	45	53	62	66	62	56	53	56	62	57	52	50	50	44	43	47	44	45	43	45	47	42	53	46	49	53.3	
Hightstown.....	Maximum... 37	47	45	44	41	34	31	39	37	52	41	29	26	29	39	42	37	33	28	28	32	35	26	25	27	23	28	40	34	36	34.8	
	Minimum... 71	71	73	63	57	47	55	64	71	61	53	54	58	63	60	58	48	50	46	48	47	45	44	40	46	47	46	52	49	52	54.3	
Indian Mills.....	Maximum... 38	46	46	39	40	33	30	40	40	50	42	26	23	24	36	47	36	31	23	26	32	35	20	26	26	19	24	41	33	36	33.6	
	Minimum... 64	62	64	60	54	44	51	58	56	57	50	54	55	60	50	49	47	46	42	42	42	38	42	42	40	42	45	44	52	42	42	49.8
Jersey City*.....	Maximum... 42	44	44	46	38	34	36	44	38	50	36	34	31	38	44	36	36	38	32	32	32	33	30	29	30	26	36	39	38	30	36.5	
	Minimum... 68	65	66	60	59	47	52	61	62	60	58	52	54	62	60	54	48	47	42	48	49	44	45	41	46	45	53	53	48	50	53.3	
Lakewood.....	Maximum... 38	43	44	38	45	35	29	38	37	53	43	27	27	29	36	43	38	32	29	29	32	34	28	27	26	24	25	41	39	37	34.9	
	Minimum... 71	70	68	65	59	44	56	64	68	61	54	57	59	63	55	49	50	55	45	40	41	46	44	41	47	47	41	52	46	45	53.4	
Lambertville.....	Maximum... 40	50	42	44	42	34	34	39	37	50	40	31	26	27	35	44	37	29	29	28	32	37	25	24	27	21	26	39	30	34	34.4	
	Minimum... 66	67	65	62	55	42	48	56	58	59	55	52	56	64	58	44	47	50	42	40	34	40	42	38	40	44	41	49	45	39	49.9	
Layton.....	Maximum... 31	40	40	39	40	31	33	38	33	47	36	33	30	21	30	37	35	26	25	22	31	31	16	16	16	19	35	25	31	30	50.8	
	Minimum... 67	67	69	67	53	45	52	60	59	60	55	56	59	64	50	44	50	46	40	40	42	44	41	44	51	47	52	42	41	30	31.5	
Little Falls/.	Maximum... 37	45	40	44	42	34	35	40	33	41	46	35	24	29	36	42	37	33	28	26	32	34	25	22	30	25	25	39	35	35	34.3	
	Minimum... 68	64	65	62	57	44	53	62	59	60	54	55	56	61	57	54	50	47	42	49	45	44	44	42	45	47	50	53	50	49	52.9	
Long Branch*.....	Maximum... 39	47	43	42	38	34	32	42	44	52	37	31	29	33	40	39	38	38	31	30	34	32	28	28	25	30	41	41	30	49	35.9	

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

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NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. XLIX.

DECEMBER 1944.

No. 12

GENERAL SUMMARY.

December was again colder than normal for the third consecutive year. The only mild period of importance was from the 5th to 8th, and this was the first December in 18 years that the temperature failed to rise above the fifties at some station in the State, the highest this month being 58°. The coldest weather at practically all stations occurred on the 22d, but the low readings for that day ranged from 16° at Cape May to -14° at Layton, Sussex County.

Average precipitation was 85 percent of the normal amount. There were general rains on the 8, 12, and 25th. The principal snowfall occurred on the 18-19th. A storm on the 27th yielded considerable snow in the extreme north but mostly rain elsewhere. Average snowfall for the State was near normal for December; the greatest monthly totals were slightly more than a foot in the extreme north. Snow, sleet, and freezing rain on the 27-28th caused hazardous highways over most of the State. Light sleet and minor glazing conditions also occurred on several other days. Strong winds occurred on the 8th, 11th, and 12th, but no serious damage was caused.

The State average precipitation for the year 1944 was 46.76 inches, or 1.04 inches above normal. Temperature averaged 52.6°, which is 0.6° above normal.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 43 stations, was 30.7°, which was 3.1° below normal. The highest temperature was 58° at Flemington on the 5th, and the lowest, -14°, at Layton on the 22d. The highest monthly average temperature was 35.5° at Cape May, and the lowest, 25.8° at Layton.

The temperature departure from the normal for the year 1944 to date, for the State, is +0.6°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 63 stations, was 3.02 inches, which was 0.53 inch below normal. The average total snowfall at 30 selected stations was 5.7 inches, which was 0.4 inch above normal. The greatest monthly precipitation was 5.38 inches at Dover, and the least, 1.74 inches at Layton. The greatest amount of precipitation in any 24 consecutive hours was 1.68 inches at Dover on the 8th.

The average for the Highlands was 3.46 inches; for the Red Sandstone Plain, 3.28 inches; for the Southern Interior, 2.85 inches; and for the Sea Coast, 2.49 inches.

The precipitation accumulated departure from the normal for the year 1944, to date, by sections, is: the Highlands, -2.91 inches; Red Sandstone Plain, +4.71 inches; Southern Interior, +2.19 inches; Sea Coast, +1.93 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 8, 9, 25, 26, 27, 31.

THUNDERSTORMS: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31.

SLEET: 12, 23, 26, 27, 28, 30, 31.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.71	27	29.04	12	16.7	50	e	8	72	61	69	59	925
Long Branch.....	30.72	27	28.93	12	14.2	58	ne.	11	70	60	68	51	1001
Trenton.....	30.72	27	28.93	12	9.6	30	ne.	11	68	56	64	49	1028

COMPARATIVE DATA FOR DECEMBER.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	35.3	60	6	3.15	.....	.....	.....	.....
1886.....	29.1	60	-2	3.51	.....	.....	.....	.....
1887.....	33.7	62	6	5.29	.....	10	.....	.....
1888.....	34.9	65	5	3.69	.....	8	.....	.....
1889.....	41.6	71	8	1.62	.....	9	.....	.....
1890.....	30.9	56	3	3.89	.....	8	11	10
1891.....	40.9	71	9	4.25	.....	8	13	9
1892.....	30.4	68	1	1.87	.....	6	9	11
1893.....	34.9	70	5	3.39	.....	11	11	10
1894.....	34.8	66	-3	4.36	.....	9	12	9
1895.....	37.2	70	3	2.61	0.4	6	11	9
1896.....	31.3	64	-15	1.48	10.7	4	14	9
1897.....	35.1	69	-3	4.90	3.4	11	8	11
1898.....	33.3	66	-2	3.53	2.0	9	12	10
1899.....	35.5	69	-1	2.11	0.5	7	14	10
1900.....	34.4	64	-2	2.59	4.1	6	14	10
1901.....	32.6	68	-8	7.30	2.1	11	12	9
1902.....	31.7	62	-11	7.23	9.1	13	13	9
1903.....	28.6	56	-13	4.08	9.2	9	14	9
1904.....	27.0	60	-15	3.19	21.1	12	10	7
1905.....	36.3	61	5	3.65	1.5	7	14	8
1906.....	33.0	70	-5	3.99	1.4	13	9	8
1907.....	36.6	70	-3	4.91	5.9	9	12	8
1908.....	34.0	72	1	3.63	7.8	11	10	8
1909.....	29.8	60	-15	4.45	12.6	5	14	8
1910.....	26.5	58	-14	2.79	11.3	9	11	10
1911.....	38.4	70	2	3.77	5.6	11	10	7
1912.....	36.9	68	-1	4.73	11.0	9	12	9
1913.....	37.7	63	-11	3.03	0.8	7	13	9
1914.....	31.1	66	-9	5.86	2.4	12	10	6
1915.....	31.9	64	3	4.82	13.6	8	12	9
1916.....	32.3	70	-8	4.61	12.6	11	13	8
1917.....	24.8	54	-21	3.18	11.5	8	13	7
1918.....	37.5	66	9	3.92	0.5	10	12	7
1919.....	28.8	67	-18	2.98	6.8	12	10	8
1920.....	36.4	69	7	5.10	1.0	8	11	8
1921.....	32.3	64	-4	2.37	6.2	9	13	8
1922.....	32.5	65	-8	3.86	7.3	12	9	9
1923.....	40.8	69	9	4.14	2.6	12	13	7
1924.....	32.8	68	-4	2.58	0.4	8	10	8
1925.....	34.0	61	-5	2.84	0.6	10	13	7
1926.....	28.4	52	-7	3.44	8.2	11	11	7
1927.....	35.3	70	2	4.54	T	12	13	6
1928.....	36.3	63	3	1.64	2.7	8	15	5
1929.....	33.8	68	2	3.01	4.1	10	11	6
1930.....	33.0	60	-5	2.67	5.2	8	10	7
1931.....	39.6	72	7	2.27	0.4	9	13	5
1932.....	36.0	69	-6	3.08	10.1	13	12	6
1933.....	31.8	72	-18	3.19	7.4	12	12	5
1934.....	33.2	69	-3	2.90	0.1	8	14	7
1935.....	28.9	60	-14	1.67	9.7	9	10	8
1936.....	37.5	67	-3	6.29	0.6	12	12	6
1937.....	33.2	70	0	1.75	0.6	7	13	6
1938.....	34.8	67	1	2.80	1.4	10	11	6
1939.....	35.2	69	-1	1.54	3.9	8	10	8
1940.....	37.0	67	-4	3.00	3.1	10	12	7
1941.....	37.2	70	0	3.70	0.4	7	12	7
1942.....	30.0	67	-17	4.55	7.0	11	10	7
1943.....	31.1	62	-10	1.41	0.1	3	16	8
1944.....	30.7	58	-14	3.02	5.7	9	11	7
Period	33.8	72	-21	3.55	5.3	9	12	8

Climatological Data for December 1944

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	71	35.2	-1.2	54	6	14	22	2.36	-1.58	1.29	27-28	0.8	11	13	3	15	w.	U. S. Weather Bureau.
Barnegat City.....	Ocean.....	36	5	33.5	.....	54	8	13	22	2.46	.....	1.27	27-28	.....	9	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	3	.....	.....	.....	.....	.....	.....	2.74	.....	0.84	27	.....	11	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	52	29.0	-2.1	51	8	0	22	3.08	-0.83	0.72	8	9.0	8	15	3	13	sw.	Miss C. S. Hixson.
Berlin.....	Camden.....	70	3	.....	.....	.....	.....	.....	.....	2.70*	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sammel H. McCulley.
Boonton.....	Morris.....	280	54	28.7	-1.6	54	5	0	23	2.80	-0.90	0.82	12†	.....	8	11	3	17	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	61	32.4	-3.8	55	8	10	22	3.14	-0.56	1.02	27-28	1.5	8	17	3	11	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	3	.....	.....	.....	.....	.....	.....	2.92	.....	1.24	11-12	1.0	7	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	58	31.2	-4.2	56	8	7	22	3.30	-0.65	1.23	11-12	.....	11	13	3	15	ne.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	14	27.8	-3.9	55	5†	4	27†	3.64	+0.47	0.96	11-12	.....	9	10	8	13	w.	N. J. Water Policy Comm.
Cape May.....	Cape May.....	17	56	35.5	-2.5	56	6	16	22	1.87	-0.47	1.02	27-28	1.2	10	8	8	15	nw.	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	52	27.6	-3.0	55	5†	4	22	4.88	+0.88	1.35	8	12.5	9	9	3	19	w.	Newark Water Dept.
Chatham.....	Morris.....	185	40	.....	.....	.....	.....	.....	.....	3.69	-0.48	0.93	27-28	8.5	11	12	4	15	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	4	31.7	.....	55	8	4	22	2.64	.....	1.28	11-12	3.5	5	14	7	10	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	31	33.2	-1.4	56	5	7	22	3.25	-0.44	1.07	27-28	2.9	9	7	7	17	n.	Worthy Hitt.
Clinton.....	Hunterdon.....	300	1	.....	.....	.....	.....	.....	.....	3.16	.....	0.84	11-12	7.5	12	11	2	18	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	43	.....	.....	.....	.....	.....	.....	3.12	-0.22	0.77	27-28	12.8	7	.....	.....	.....	.....	L. S. Depue.
Dover.....	Morris.....	600	60	28.2	-2.2	54	5	0	22	5.38	+1.20	1.68	8	9.0	8	10	6	15	.....	William C. Harris.
Elizabeth.....	Union.....	34	65	31.0	-2.8	54	5	6	20	3.69	-0.23	1.14	27-28	5.8	8	15	2	14	ne.	Union County Park Comm.
Flemington, 2 mi. N.E.....	Hunterdon.....	140	58	30.8	-2.2	58	5	4	20	2.99	-0.67	0.83	27-28	8.0	9	14	6	11	nw.	Hiram E. Deats.
Fort Dix, A. A. B.....	Burlington.....	120	.....	31.0	.....	54	8	7	22	2.55	.....	0.83	11	1.5	10	13	6	12	sw.	A. A. Weather Station.
Freehold.....	Monmouth.....	194	40	30.5	-4.5	58	6†	2	22	3.03	-0.55	1.18	11-12	2.0	8	14	7	10	w.	Morean Plant Co.
Hammononton.....	Atlantic.....	95	38	30.8	-2.4	54	5	2	22	2.85	-1.13	1.33	27	2.5	7	8	11	12	n.	J. G. Wilson.
Hightstown.....	Mercer.....	110	51	30.8	-2.6	54	8	1	22	3.14	-0.40	1.35	11-12	3.3	11	11	9	11	nw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	55	31.6	-3.0	56	8	2	22	2.56	-1.55	1.08	11-12	2.9	10	11	9	11	w.	Edward Entwistle.
Jersey City.....	Hudson.....	81	46	30.0	-5.0	50	8	7	22	3.95	+0.30	1.54	27-28	.....	9	15	11	5	nw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	40	32.6	-1.9	54	6	7	22	2.82	-1.37	1.02	11-12	2.0	7	9	8	14	nw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	57	30.5	-2.9	54	5†	9	23	2.57	-1.13	0.70	27-28	6.5	8	10	4	17	nw.	Mabel Wollaston.
Layton††, 3 miles NW.....	Sussex.....	480	43	25.8	-2.6	51	5†	14	22	1.74	-1.63	0.60	27-28	14.1	8	9	4	18	ne.	A. M. Depue.
Little Falls.....	Passaic.....	157	41	30.2	-2.6	54	5	2	22	3.90	+0.46	0.94	8	6.4	11	14	4	13	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	36	32.4	-2.3	55	6	12	22	2.94	-1.21	0.86	27-28	2.2	11	10	8	13	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	14	27.4	-2.8	52	5†	3	22	3.20	-0.04	0.84	25	9.0	7	13	9	9	w.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	3	.....	.....	.....	.....	.....	.....	2.77	.....	1.14	11-12	2.1	10	11	9	11	nw.	David Griscom.
Mays Landing.....	Atlantic.....	50	0	.....	.....	.....	.....	.....	.....	2.36	.....	1.22	27-28	2.0	9	.....	.....	.....	.....	Elmer Earle.
Millville.....	Cumberland.....	60	4	.....	.....	.....	.....	.....	.....	2.56	.....	1.15	27-28	.....	8	13	9	9	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	81	31.4	-2.6	55	8	6	22	2.97	-0.80	1.40	11-12	2.7	12	9	7	15	uw.	Japanese Beetle Laboratory
Morris Plains.....	Morris.....	500	3	.....	.....	.....	.....	.....	.....	4.30	.....	1.37	31	9.4	8	14	3	14	.....	James C. Long.
Newark.....	Essex.....	10	90	30.6	-3.1	52	8	10	22	2.96	-1.00	0.80	8	6.8	12	8	8	15	ne.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	90	31.9	-2.5	53	8	7	22	2.84	-0.70	0.82	11-12	3.4	8	12	4	15	nw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	26	.....	.....	.....	.....	.....	.....	3.19	+0.23	0.92	8	.....	10	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	61	26.0	-4.4	49	5†	0	22	2.54	-0.87	0.72	7-8	13.5	9	8	9	14	nw.	Irving J. Kern.
Orangetown.....	Essex.....	140	4	.....	.....	.....	.....	.....	.....	2.58	.....	0.80	28	5.8	5	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	73	29.8	-3.7	53	5†	5	22	3.30	-0.55	0.90	8	7.5	11	12	9	10	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	15	33.1	-3.1	54	9	8	22	2.71	+0.19	1.37	11-12	2.4	9	13	4	14	w.	Charles A. Doeblert.
Phillipsburg.....	Warren.....	182	56	27.6	-4.2	53	8	2	22	2.93	-0.50	0.80	27-28	9.5	11	15	3	13	n.	Town Engineer.
Plainfield.....	Union.....	120	56	31.0	-2.1	53	5†	8	22	3.20	-0.67	0.89	27-28	5.3	11	8	11	12	n.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	3	.....	.....	.....	.....	.....	.....	3.10	.....	1.14	27-28	2.0	7	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	46	32.6	-2.9	52	6†	12	22	2.81	-1.12	1.49	27-28	.....	9	10	11	10	nw.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	5	.....	.....	.....	.....	.....	.....	2.97	.....	0.81	27-28	4.0	8	7	9	15	n.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	27	29.7	-2.5	52	8	5	22	2.70	-1.11	0.60	8	9.2	10	11	10	10	nw.	George P. Kirsten.
Rumyon††.....	Middlesex.....	18	21	27.8	-4.6	52	5	0	22	3.09	+0.14	0.84	12	.....	6	12	9	10	w.	N. J. Water Policy Comm.
Rutherford.....	Bergen.....	51	0	.....	.....	.....	.....	.....	.....	3.20	.....	0.73	8	8.8	12	8	5	18	n	Harold Scott.
Sandy Hook.....	Monmouth.....	15	46	32.8	-2.4	51	8	16	22	2.59	-1.45	0.84	27-28	.....	10	.....	.....	.....	.....	U. S. Coast Guard.
Somerville.....	Somerset.....	385	61	29.5	-3.3	53	5†	2	22	2.99	-0.72	0.84	27-28	.....	7	9	13	9	w.	Joseph Starkman.
Sussex.....	Sussex.....	450	49	29.2	-1.0	53	5	7	22	3.90	+0.93	1.20	12	14.5	7	7	7	17	nw.	Marshall Hunt.
Toms River.....	Ocean.....	33	23	.....	.....	.....	.....	.....	.....	3.35	-1.01	1.20	11-12	2.9	8	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	72	31.8	-2.6	55	8	10	22	2.55	-0.80	0.78	11-12	3.5	11	8	8	15	n.	U. S. Weather Bureau.
Trenton No. 2.....	.....do.....	105	14	31.6	.....	55	8	8	22	3.12	.....	0.78	27	4.6	10	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	51	34.9	-1.3	55	8	14	22	1.95	-2.38	0.91	12	2.0	8	13	4	14	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	64	.....	.....	.....	.....	.....	.....	2.72	-0.90	1.30	27-28	.....	9	.....	.....	.....	.....	Robert Jones.
Westfield.....	Union.....	145	5	.....	.....	.....	.....	.....	.....	2.98	.....	0.88	27-28	4.2	5	15	6	10	n.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	26	.....	.....	.....	.....	.....	.....	3.39	+0.38	1.10	8	.....	10	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	9	.....	.....	.....	.....	.....	.....	2.05	.....	1.10	12	.....	3	13	5	13	w.	Geo. S. Keen.
New York, N. Y.....	.....	10	74	32.4	-2.6	55	8	12	22	3.16	-0.46	1.01	27-28	5.9	11	10	8	13	w.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	74	32.2	-2.4	57	8	10	22	2.80	-0.63	1.25	11-12	1.5	12	9	6	16	w.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	30.7	-3.1	58	5	-14	22	3.02	-0.53	1.68	8	5.7	9	11	7	13	nw.	.....

For cooperative stations the departures from normal temperatures are computed from averages of entire period for stations having ten or more years of record. Departures of precipitation for stations with 15 or more years of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for period of record are used. †Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

†On other dates also. ‡Length of precipitation record; temperature record is much shorter. *Estimated.

††Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for December 1944

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast						T.	.09				.55	.04				T.		.15	.02		.06	.01	T.	T.	T.	T.	1.23	.06	T.	.04	.11	2.36	
Barnegat City ⁴	do.							.43				.40	.08						.18	.02		.02		T.	T.			1.27		T.	.02	.04	2.46	
Belleplain	Tuckahoe																																	
Belmar ²	Coast							.52				.40	.40						.05	.05		.05		T.		.14		.84	.05		.01	.23	2.74	
Belvidere	Delaware	T.						.72				.61					.06		T.	.50				T.	T.	.50		.12	.49		T.	.08	3.08	
Berlin	Mullica																																	
Boonton ³	Passaic	.32						.03				.82	.02				T.		.35					T.		.16	.28		.82		T.		2.80	
Bridgeton	Delaware							.70				.30	.72						.19				.07			T.		.23	.79		T.	.14	3.14	
Brooklawn	do.							.49				.06	1.18						.06			.04			.26			.83			T.		2.92	
Burlington	do.							.22				* 1.23							*			T.	.50			.30		.10	.30		.10	.15	3.30	
Cape Brook ³	Passaic							.04	.64			.95	.01						.40							.25	.43		.90		.02	.02	3.64	
Cape May ^{2†}	Coast	T.	T.					.10				.61	.03				T.		.04	T.		.01	T.	T.	T.	T.	.25	1.00	.02	.01	.02	.03	1.87	
Charlotteburg	Passaic							1.35	.83			.93	T.				.12			.38				T.			*	.39		.85		.03	4.88	
Chatham ³	do.	.45						.04	.58			.82	.03						.02	.20					T.	.26	.33		.93		.03	3.69		
Chatsworth	Coast							.18				1.28							.10		.10							.98				2.64		
Clayton	Delaware		T.					.58				.16	.90	.08					.09				.12		.23			.10	.97			3.25		
Clinton	Raritan							.56	.02			.06	.84				.05		.08	.28					T.	.45	.08	.14	.40		.20	3.16		
Culvers Lake	do.							.63	.11			.72							.42							.37	T.	.10	.77			3.12		
Dover	Passaic							1.68				.08	.88						.20	.30						1.17		.96			.11	5.38		
Elizabeth	Coast		T.					.74	.04			.82	T.				T.		.53			T.		T.		.42	T.	.10	1.04		T.	.04	3.69	
Flemington	Raritan							.44				.03	.73				.05		T.	.28					T.	.45	.12	T.	.83		.06	2.99		
Fort Dix, A.A.B. ²	Delaware		T.					.15				.83	.46					.03	.01		.02		T.		T.	.15		.60	.11	T.	.19	2.55		
Freehold	Raritan							.61	.02			1.18					T.		.10		.02	T.	T.			.27		.81			.02	3.03		
Hammonton	Mullica							.28				.91							.10			.12				.08		1.33	T.	.03	2.85			
Hightstown	Raritan		T.					.42	.05			T.	1.35				.01		.08		T.	.01	T.			.36	.02	*	.82		T.	.02	3.14	
Indian Mills	Mullica		T.					.24	T.			.05	1.08	T.					.09			T.	.08			.04		.12	.81		.01	.04	2.56	
Jersey City ²	Coast							.55				.04	.74				T.		.09	.25				T.		.40		.74	.80		T.	.34	3.95	
Lakewood	Metedeconk							.45				T.	1.02				T.		.15		.15		T.	.06		.16		T.	.90	T.	.08	2.82		
Lambertville	Delaware							.35	T.			.08	.65				T.		T.	.32		T.	T.			.36	.05	T.	.70		.06	2.57		
Layton	do.							.30	.12			.21	T.						.32							.12	.07	*	.60		T.	1.74		
Little Falls ³	Passaic	.35						.04	.90			.89	.01					.02		.36				T.	T.	.26	.17		.88		.02	3.90		
Long Branch ^{2†}	Coast		T.	T.				.63				.36	.41				T.		.06	.07		.02			T.	.23		.79	.07	.01	.29	2.94		
Long Valley ³	Raritan	.35						.75				.60						.06		.50							.84		.10			3.20		
Marlton	Delaware							.32				.10	1.04						.08				.05			.21		.05	.79		.03	.10	2.77	
Mays Landing	Gt. Egg Harbor							.10				.10	.70	.03					.08		.08		.10						1.22		.01	.02	2.36	
Millville ^{2†}	Maurice							.32				.78	.16					.08				.02						1.04	.11		.05	2.56		
Moorestown ³	Delaware	.15						.02	.18			1.40	.01					T.		.16		.05				.21	.03		.73		.01	.02	2.97	
Morris Plains	Passaic							.88	.16			.81	T.					.03		.27				T.		*	.47		.81		T.	1.37	4.80	
Newark ¹	Coast	T.						.80				.24	.25					.01		.08	.11		T.		.01		.47	T.	.73	.06	.01	.19	2.96	
New Brunswick	Raritan		T.					.55	.02			T.	.82				T.			.20		T.	T.		T.	.38	.06	T.	.79		.02	2.84		
New Milford ^{2†}	Hackensack							.92				.18	.29					.02		.14	.22				T.	.48		.74	.07		.13	3.19		
Newton	Delaware							.72	.30			.01	.61					.02		.02	.36							.03	.47	T.	T.	2.54		
Orange ^{2†}	Passaic							.20	.49			.68								.41									.80			2.58		
Paterson ²	do.							.90				.10	.44					.06		.06	.46								.71	T.	.01	.12	3.30	
Pemberton	Delaware							.15	.01			.03	1.37						.07		.07		.08			.09	T.	.83		T.	.08	2.71		
Phillipsburg	do.						T.	.36	.05			.04	.41	T.				.05		.11	.34		T.		T.	.51		.46	.34	T.	.26	2.93		
Plainfield	Raritan		T.					.75				.02	.73					.02		.22		T.		T.		T.	.52		.22	.67		.01	.02	3.20
Plainsboro	do.							.37				.02	1.00							.10						.04			1.14		.43	3.10		
Pleasantville ³	Coast	.26						.02	.06			.65								.13			.05		T.				1.49		.10	.05	2.81	
Rahway ^{2†}	Rahway							.56				.19	.51						.15							.55		.65	.16		T.	.20	2.97	
Ridgefield	Hackensack							.60				.53						T.		.05	.43				.01		.42	.01	.30	.28	T.	.07	2.70	
Runyon	Coast							.64				.84								.18							.61		*	.82			3.09	
Rutherford	Passaic							.73	.01			.04	.66					.01		.08	.22				T.	T.	.45	.01	.41	.41	T.	.17	3.20	
Sandy Hook ^{2†}	Coast		T.					.50				.25	.29						.05	.12		.02			T.		.31	T.	.80	.04	T.	.21	2.59	
Somerville	Raritan							.64				T.	.82					.01		T.	.24		T.	T.	T.		.40	T.	.84			.04	2.99	
Sussex	Hudson	T.						.80	.20			T.	1.20					T.		.60							.30		.05	.75		T.	3.90	
Toms River	Coast							.45	.11			.10	1.10						.24			.05							1.05		.25	3.35		
Trenton ^{1†}	Delaware		T.					.18				.51	.27					T.		.17	.02		.02	T.	T.									

Daily Temperatures for December 1944

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	39	34	31	38	50	54	47	54	44	43	50	47	41	36	39	41	42	45	40	42	46	34	37	40	47	50	46	37	31	38	44	42.2
	Minimum...	30	22	20	22	26	33	34	44	33	31	33	31	30	25	27	35	31	32	23	20	24	14	29	32	38	23	19	30	23	27	37	28.3
Barnegat City†.....	Maximum...	38	31	30	37	32	51	47	54	43	42	51	51	40	35	39	40	46	42	41	35	42	34	35	40	46	46	42	37	30	39	43	40.6
	Minimum...	28	22	19	21	25	31	33	40	38	29	30	29	28	25	24	30	30	28	18	17	21	13	26	30	35	20	18	27	20	26	38	26.4
Belleplain.....	Maximum...	35	31	32	40	48	43	45	51	50	38	39	37	39	33	34	35	38	35	27	27	36	28	31	35	35	37	30	34	35	28	35	36.2
	Minimum...	26	22	17	15	18	22	24	35	35	30	27	30	29	22	23	29	27	26	13	9	15	0	7	25	31	23	23	25	12	15	24	21.9
Boonton/.....	Maximum...	36	28	33	41	54	47	50	53	41	44	42	37	39	35	33	39	35	24	38	40	28	35	35	43	33	36	35	27	30	45	37.8	
	Minimum...	27	23	15	15	16	16	21	23	34	33	25	24	29	24	18	19	29	29	17	4	18	2	0	20	29	31	9	10	14	14	19	19.6
Bridgeton.....	Maximum...	39	32	33	39	49	52	49	55	43	41	50	40	38	34	36	40	43	43	35	34	41	35	35	38	47	51	34	35	32	36	39	40.3
	Minimum...	28	27	20	20	23	29	40	37	26	24	30	29	23	23	28	27	24	20	15	29	10	23	29	34	28	16	30	22	24	31	24.4	
Burlington.....	Maximum...	34	35	33	38	52	45	47	56	51	41	40	44	40	36	37	38	42	38	32	33	39	33	34	35	40	38	38	36	34	35	37	39.1
	Minimum...	27	25	18	19	21	22	27	36	38	28	32	33	31	24	21	27	28	25	17	12	26	7	17	27	31	15	14	11	17	18	27	23.3
Canoe Brook/.....	Maximum...	38	32	34	41	55	50	55	55	41	42	39	35	40	44	30	39	41	39	28	35	39	20	31	34	39	33	34	35	28	30	35	37.6
	Minimum...	26	22	14	12	13	15	17	19	34	29	20	28	18	16	21	27	20	17	14	13	9	6	17	26	33	4	17	4	8	18	18.0	
Cape May*.....	Maximum...	39	34	32	41	50	56	47	52	43	40	51	48	38	34	38	40	42	44	44	46	30	38	40	48	53	44	38	32	38	42	42.1	
	Minimum...	32	23	22	22	26	33	34	42	35	34	34	32	28	31	35	32	30	24	24	26	16	28	34	38	22	18	30	19	24	34	28.9	
Charlotteburg.....	Maximum...	37	31	30	39	55	55	48	48	51	39	39	38	35	34	34	40	38	37	29	26	35	29	35	36	40	36	23	34	31	30	27	36.7
	Minimum...	22	22	11	13	17	15	22	30	32	29	22	28	25	20	19	27	21	27	11	8	20	-4	-1	24	29	52	5	17	8	14	22	18.6
Chatsworth.....	Maximum...	39	35	31	39	50	55	49	55	54	41	41	51	39	36	34	41	41	42	39	34	40	36	37	38	52	35	37	33	33	40	41.4	
	Minimum...	27	22	16	15	15	16	23	36	36	24	17	30	29	22	21	25	26	18	19	8	27	4	10	27	34	28	11	30	14	21	30	22.0
Clayton.....	Maximum...	43	37	32	40	56	54	50	55	54	44	48	51	39	38	38	44	42	44	39	33	39	38	32	54	50	48	40	36	35	30	57	42.2
	Minimum...	27	25	19	17	22	22	29	38	35	22	35	24	29	22	21	23	24	28	19	12	28	7	12	25	24	25	13	29	19	22	20	23.1
Dover.....	Maximum...	34	30	31	40	54	50	46	50	42	41	39	38	37	34	34	37	37	34	25	27	35	26	33	34	41	41	27	32	28	34	36	36.4
	Minimum...	25	19	14	15	20	21	25	34	31	30	25	22	25	20	22	26	27	22	10	12	17	0	6	28	30	19	10	10	12	12	29	19.9
Elizabeth.....	Maximum...	33	36	33	43	54	52	48	52	52	43	44	43	42	40	38	40	42	41	33	30	41	31	33	36	36	40	26	38	33	31	37	36.4
	Minimum...	27	24	16	16	18	21	21	35	36	30	25	31	29	18	18	27	29	24	18	6	18	8	12	27	32	25	12	25	22	20	29	2.5
Flemington.....	Maximum...	38	34	33	47	58	49	48	53	51	41	39	42	41	38	39	37	42	38	31	30	39	37	36	36	35	38	28	39	35	29	36	3.3
	Minimum...	27	24	17	17	20	23	25	34	35	32	25	31	30	24	25	27	27	27	15	4	13	5	10	27	32	27	12	24	12	19	25	22.4
Fort Dix, A. A. B.*.....	Maximum...	37	30	31	38	50	53	48	54	42	41	47	48	39	34	36	40	42	37	28	35	39	24	33	36	43	42	35	37	28	31	39	38.6
	Minimum...	26	22	17	18	21	22	32	37	31	26	20	29	28	23	22	27	27	26	14	19	7	23	27	32	20	14	27	19	22	30	23.4	
Freehold.....	Maximum...	37	33	30	38	50	53	49	53	52	43	42	43	40	35	37	41	43	38	32	32	32	34	35	41	43	33	36	32	31	40	39.2	
	Minimum...	25	22	13	15	17	23	27	35	34	27	24	28	28	20	21	25	25	24	16	10	26	2	11	25	31	24	10	27	14	21	27	21.8
Hammonton.....	Maximum...	38	36	35	36	54	49	50	51	44	36	46	45	38	38	39	41	42	44	28	34	39	36	36	37	38	34	36	38	30	31	38	39.3
	Minimum...	25	21	16	15	19	24	21	31	34	25	26	31	20	19	22	27	28	27	11	28	2	21	22	30	25	13	27	18	22	27	22.2	
Hightstown.....	Maximum...	37	33	32	40	51	50	46	54	51	42	39	47	39	35	37	39	42	37	30	31	40	32	33	35	38	40	31	36	32	30	36	38.5
	Minimum...	27	24	16	16	18	22	26	34	36	30	23	30	30	22	24	26	28	27	17	10	25	4	11	28	31	26	12	28	16	21	27	23.1
Iudau Mills.....	Maximum...	38	33	32	38	51	55	52	56	51	43	44	51	40	35	38	41	45	41	34	33	40	34	35	36	49	55	34	36	31	33	38	41.0
	Minimum...	27	20	17	15	14	16	25	38	36	26	17	30	29	21	20	27	27	22	18	11	29	2	12	27	33	26	8	30	18	22	29	22.3
Jersey City*.....	Maximum...	34	30	28	36	49	48	44	50	45	41	40	38	40	36	36	36	38	36	24	29	35	23	30	33	37	37	28	34	24	28	36	35.6
	Minimum...	27	19	16	18	24	30	31	40	33	32	31	30	28	26	31	30	23	17	17	19	7	20	30	31	19	16	24	18	18	25	24.3	
Lakewood.....	Maximum...	40	34	29	37	48	54	46	53	50	41	44	49	40	35	37	42	43	40	35	33	40	33	35	37	46	48	34	39	32	31	42	40.2
	Minimum...	29	24	16	17	21	22	35	38	28	23	31	33	25	25	29	29	29	21	12	30	7	14	27	35	27	15	31	17	25	31	25.0	
Lambertville.....	Maximum...	37	34	36	45	54	50	48	54	52	42	39	41	40	35	39	39	43	39	31	37	31	35	35	39	29	36	31	31	31	36	38.8	
	Minimum...	27	23	17	16	17	20	24	33	35	28	22	30	30	22	23	28	27	24	15	12	17	13	9	28	31	24	11	25	11	19	26	22.2
Layton.....	Maximum...	35	31	31	42	51	51	46	41	45	39	41	35	34	33	34	40	39	37	25	24	37	28	32	34	35	38	25	35	32	30	34	35.9
	Minimum...	23	18	8	7	9	15	17	29	34	28	22	28	25	11	13	26	25	23	9	1	14	-14	-4	25	28	21	-2	17	1	9	22	15.7
Little Falls/.....	Maximum...	36	32	32	41	54	51	49	53	46	43	43	34	38	36	36	37	40	36	26	37	38	30	44	42	42	32	35	36	28	32	53	39.1
	Minimum...	27	24	14	17	19	21	23	30	37	32	25	27	29	23	19	27	30	17	7	19	2	7	21	32	29	10	13	13	15	19	21.2	
Long Branch*.....	Maximum...	37	32	31	39	50	55	48	52	44	43	44	48	40	35	38	41	43	38	29	32	40	28	35	38	45	41	40	37	26	38	45	39.7
	Minimum...	27	21	18	23	25	25	30	39	34	30	26	30	28	23	24	30																

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CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION,
A. E. WHITE
TRENTON, N. J.

VOL. XLIX. ANNUAL SUMMARY, 1944. No. 13.

GENERAL SUMMARY.

Temperature and precipitation for 1944 both averaged slightly above normal. Light snowfall in January was offset by greater than normal amounts in March and April, and the year's total was almost normal; annual amounts ranged from 8.3 at Cape May to 60.2 inches at Layton. There were severe and protracted heat waves in July and August, and the two months combined averaged hotter than in any previous year of record in New Jersey. There was also the greatest number of days with temperatures in the nineties ever recorded in one summer in this State. Extreme readings of previous years, however, were not equaled. Precipitation varied greatly in different localities. Annual totals ranged from 34.01 inches at Cape May to 59.19 inches at Elizabeth. Generally speaking, the most precipitation occurred on the east side of the State. Annual totals were 50 inches or more over a considerable area from Hudson and Essex Counties southward to Ocean County, and extending for about 20 to 25 miles inland. Droughty conditions prevailed in July and August causing much deterioration of crops, particularly of potatoes. March, September, and November were all much wetter than normal. The greatest monthly rainfall at any station was 12.63 inches at New Brunswick in September. Ten other stations also had more than 10 inches during that month, much of which fell during the passage of the hurricane, September 13-14th.

WEATHER BY MONTHS

JANUARY: Averaged warmest of any January since 1937 due to warm weather last decade. Monthly range, however, was from -10° at Charlotteburg on 17th to 69° at Pleasantville on the 27th. The stations averaged only 7 days with measurable precipitation but monthly totals averaged almost normal. Snowfall was light.

FEBRUARY: Temperature averaged practically same as for January but only five stations recorded below zero. Monthly maximum was 65° on 24th. Precipitation was two thirds of normal.

MARCH: Cold and wet with 151 percent of normal precipitation and first month of current winter with snowfall above normal. Vegetation developed slowly and was about 10 days behind usual advancement at close of month.

APRIL: Also colder and wetter than normal resulting in slow advancement of vegetation; season about two weeks late at end of month. There was a heavy snow on 4-5th in north Jersey with a fall of 8 to 10 inches at some stations.

MAY: There was unusual heat on 22d and last five days with temperature in the nineties at many stations. Month was dry with only 45 percent of normal precipitation. It was very favorable for planting crops and farm work generally; some alfalfa hay was cut.

JUNE: Warmer than normal but no severe heat wave. It was dry until the 10th, but generally wetter than normal thereafter; monthly rainfall ranged up to 8.06 inches at Plainfield. Hail did heavy damage to crops, mainly tomatoes, in Burlington County on 18th.

JULY: Warmest since 1935 and had most days with 90° or higher ever recorded in New Jersey. There were two distinct heat waves, both longer than usual for this area. Excepting

July 1910, this was the driest July of record in this State. Rainfall was only 31 percent of normal with many stations recording less than an inch. Crops deteriorated, especially potatoes.

AUGUST: This was the fourth successive month considerably warmer than normal. Heat was severe from the 4th to 17th, except for some abatement from 6th to 9th. Rainfall was greatly deficient as in July. The two months period, July-August was the driest of record in New Jersey with only 45 percent of the normal rainfall for the two months. Drought was serious by close of month with crops badly damaged, and many streams and wells going dry.

SEPTEMBER: The hurricane of September 14th was the most destructive storm in the State for more than fifty years. Eight lives were lost in coastal areas and property damage totaled approximately \$25,000,000. This was the wettest month of the year due to the heavy rains that accompanied the passage

(Continued on bottom of next page.)

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885	50.4	100	-2	37.87				
1886	50.8	98	-10	46.54				
1887	51.3	102	-6	47.66				
1888	50.2	99	-12	52.20				
1889	52.8	95	-3	63.33				
1890	53.1	101	0	49.34				
1891	53.2	102	1	47.98				
1892	51.5	105	-6	42.04				
1893	50.7	103	-21	47.90				
1894	53.0	106	-11	47.37				
1895	51.5	109	-12	37.29	25.7			
1896	52.1	105	-15	42.51	39.5			
1897	52.0	102	-6	51.72	25.8			
1898	53.1	107	-15	52.35	34.3			
1899	52.1	103	-21	45.84	44.3	107	148	120
1900	53.8	104	-9	42.71	23.3	108	146	127
1901	51.3	107	-12	51.80	14.1	116	141	116
1902	51.9	100	-11	59.44	40.1	124	148	116
1903	51.7	100	-16	56.25	22.3	116	151	108
1904	49.2	100	-34	43.78	48.5	113	160	107
1905	51.2	102	-18	42.06	32.9	109	160	114
1906	52.7	98	-15	46.38	23.4	121	146	112
1907	50.3	96	-22	51.65	54.1	128	141	99
1908	52.6	106	-17	42.58	35.3	103	145	115
1909	51.9	100	-15	40.86	29.9	114	137	116
1910	51.8	99	-15	39.73	33.3	114	123	123
1911	52.6	104	-12	50.36	30.0	129	121	121
1912	51.3	100	-32	46.61	35.1	115	137	124
1913	54.0	100	-11	46.99	5.2	111	173	97
1914	51.2	99	-12	39.23	41.1	107	149	108
1915	52.4	98	3	47.37	39.4	114	145	115
1916	51.0	100	-18	38.17	49.6	121	159	100
1917	49.5	104	-21	40.80	40.4	117	166	96
1918	51.6	108	-23	37.65	25.3	108	167	96
1919	52.6	103	-11	52.10	10.9	131	161	80
1920	51.2	98	-17	51.87	33.4	127	158	94
1921	54.2	100	-5	38.16	23.0	115	167	90
1922	52.6	98	-11	41.57	30.8	119	169	90
1923	51.9	106	-14	40.38	39.8	112	172	92
1924	50.6	102	-6	44.17	24.3	102	177	96
1925	52.2	103	-20	42.15	26.8	111	165	97
1926	50.0	105	-11	44.41	32.2	122	157	95
1927	52.0	99	-12	49.68	13.7	125	156	90
1928	52.0	99	-15	46.22	21.5	125	158	97
1929	52.3	102	-9	42.96	16.0	118	162	87
1930	52.7	105	-14	35.28	15.6	99	172	89
1931	54.4	102	-9	37.07	8.6	106	169	82
1932	53.4	100	-10	46.80	16.3	111	169	95
1933	52.9	105	-18	49.80	21.5	121	158	88
1934	51.6	103	-26	45.43	32.7	117	169	85
1935	51.6	101	-31	42.32	36.2	118	155	89
1936	52.3	110	-17	47.57	22.1	119	163	87
1937	53.0	103	0	47.61	11.1	124	161	84
1938	53.3	100	-19	52.52	23.1	133	151	88
1939	53.0	99	-10	42.95	18.4	113	152	92
1940	50.1	104	-13	48.43	28.1	121	144	92
1941	53.0	105	-7	37.23	32.6	93	192	82
1942	52.6	105	-23	50.52	16.8	108	158	90
1943	52.0	102	-25	39.02	17.7	102	145	102
1944	52.5	104	-14	46.78	27.7	104	152	98
Period	52.0	110	-34	45.72	28.4	116	155	100

Climatological Data for the Year 1944

Stations	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)						Number days with .01 or more	Sky			Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snowfall (unmelted)	Number clear days	Number partly cloudy days	Number cloudy days	
Atlantic City	Atlantic	8	71	53.7	94	Aug. 5	14	Jan. 9†	71	49.02	9.06	Nov.	1.01	May	10.0	117	122	107	s.
Barneget City	Ocean	36	5	52.9	95	do. 11	13	do. 9†	5										
Belleplain	Cape May	49	50		97	do. 4†	6	Mar. 6	50	49.86	7.56	Nov.	1.24	July					s.
Belmar	Monmouth	19								53.03	8.09	Sept.	1.63	do.			120		s. w.
Belvidere	Warren	289	52	52.1	101	Aug. 5	0	Dec. 22	52	44.34	6.97	do.	1.22	do.	43.9	108	184	71	
Berlin	Camden	70							3	36.18	5.90	do.	0.45	do.					
Boonton	Morris	280	36	50.6	99	Aug. 4	0	Dec. 23	54	44.01	6.71	Nov.	1.33	Oct.		104	159	58	nw.
Bridgeton	Cumberland	30	56	54.9	97	July 30	10	do. 22	61	46.32	7.67	Sept.	1.46	July	13.0	100	187	64	nw.
Brooklawn	Camden	30							3	39.65	6.93	do.	0.73	do.	13.9	75			
Burlington	Burlington	12	32	54.5	99	July 23	7	Dec. 22	58	45.41	9.49	do.	1.37	May	20.7	107	173	79	sw.
Canoe Brook	Essex	180	14	50.8	104	Aug. 5	-6	Feb. 14	14	49.34	7.41	do.	1.75	Oct.		110	165	97	w.
Cape May	Cape May	17	19	54.4	93	do. 4†	14	Jan. 9	56	34.01	6.13	do.	1.29	July	8.3	113	116	123	nw.
Charlotteburg	Passaic	760	52	49.4	97	do. 5†	-10	do. 17	52	45.53	6.31	Nov.	1.81	May	58.8	105	142	58	w.
Chatham	Morris	185							40	48.40	7.12	do.	1.59	July	41.0	113	147	118	101
Chatsworth	Burlington	90	4	53.1	98	July 11†	-1	Jan. 17	4	50.21	9.13	Sept.	1.86	May		74	147	123	nw.
Clayton	Gloucester	120	31	54.5	97	Aug. 5	7	Dec. 22	31	42.64	6.19	do.	1.00	July	18.9	75	132	77	157
Clinton	Raritan	300							1	41.17	6.38	Nov.	0.73	do.	25.4	121	161	91	nw.
Culvers Lake	Sussex	760							43	45.12	7.07	June	1.13	Oct.	55.2	93			
Dover	Morris	600	60	50.0	98	Aug. 12	0	Jan. 17†	60	44.68	6.87	Nov.	1.34	Aug.	41.0	101	112	124	130
Elizabeth	Union	34	60	54.0	101	do. 4†	6	Dec. 20	65	59.19	12.42	Sept.	1.97	May	26.4	117	177	71	ne.
Flemington, 2 mi. NE	Hunterdon	140	47	54.1	103	do. 11	-1	Jan. 1†	58	41.43	6.18	Nov.	0.72	Aug.	24.7	105	185	79	102
Fort Dix, A. A. B.	Delaware	120	1		97	do. 4†			1		9.35	Sept.	0.96	July					sw.
Freehold	Monmouth	194	13	52.6	98	do. 5	2	Dec. 22	40	53.69	11.46	do.	0.46	do.	22.3	114	187	91	84
Hammonton	Atlantic	95	12	54.0	98	July 7†	2	do. 22	38	47.25	7.61	do.	1.04	May	17.3	98	161	98	107
Hightstown	Mercer	110	48	52.8	97	Aug. 4†	3	Jan. 17	51	49.35	11.54	do.	0.45	July	24.6	105	145	125	95
Indian Mills	Burlington	100	54	53.3	99	do. 5	-1	do. 17	55	43.91	7.08	do.	1.67	do.	23.0	115	135	140	91
Jersey City	Hudson	81	46	52.5	97	do. 11	7	Dec. 22	46	50.32	8.99	do.	1.82	May		104	170	94	102
Lakewood	Ocean	54	40	53.4	96	July 28†	6	Jan. 17†	40	53.83	8.35	do.	1.48	July	18.0	108	111	116	139
Lambertville	Hunterdon	75	57	52.8	99	Aug. 4	0	do. 17	57	43.47	6.39	do.	0.59	do.	25.0	94	157	75	134
Layton - 3 mi. NW	Sussex	480	43	48.6	97	do. 4†	-14	Dec. 22	43	38.66	6.37	Aug.	0.50	Oct.	60.2	109	148	56	162
Little Falls	Passaic	157	30	52.0	100	do. 12	2	do. 22	41	50.14	8.89	Sept.	1.07	July	39.5	117	165	112	89
Long Branch	Monmouth	34	36	52.7	99	do. 11	11	Jan. 17	36	57.50	11.13	do.	0.22	do.	21.0	111	130	103	133
Long Valley	Morris	660	11	48.9	99	Aug. 5†	-6	Feb. 14	14	41.99	6.34	Mar.	1.06	July	44.0	104	172	111	83
Marlton - 1 mi. W.	Burlington	90							3	43.87	7.52	Sept.	0.98	do.	20.2	104	159	103	104
Millville	Cumberland	60							4	50.59	8.46	do.	1.06	do.		106	178	95	93
Moorestown	Burlington	62	81	53.1	95	July 7†	6	Dec. 22	81	42.41	8.31	do.	1.45	do.	22.0	99	149	93	124
Morris Plains	Morris	500							3	49.43	7.55	Nov.	1.47	do.	37.6	101	186	73	107
Newark	Essex	10	45	53.2	102	Aug. 5†	9	Feb. 14	90	51.00	10.28	Sept.	1.55	May	30.0	111	95	119	152
New Brunswick	Middlesex	86	87	53.4	97	do. 4†	7	Jan. 14†	90	50.54	12.63	do.	0.68	July	22.4	101	176	85	105
New Milford	Bergen	12							26	45.77	7.95	do.	0.67	do.		114			
Newton	Sussex	769	61						61	41.71	7.15	June	1.45	Oct.	53.6				nw.
Orange	Essex	110							4	47.80	7.96	Sept.	1.58	do.		97			
Paterson	Passaic	95	74	51.5	100	Aug. 13	5	Dec. 22	73	40.44	6.12	do.	1.01	do.	29.6	115	148	122	96
Pemberton	Burlington	55	15	54.8	97	do. 4†	3	Jan. 17	15	44.23	7.45	do.	0.89	July	19.0	103	177	63	126
Phillipsburg	Warren	182	53	51.0	99	do. 12†	2	Feb. 14	61	40.38	6.86	do.	1.00	do.	31.2	114	163	97	106
Plainfield	Union	120	53	53.0	100	do. 5†	8	Dec. 22	56	54.77	8.42	do.	1.72	do.	29.1	122	106	142	118
Plainsboro	Middlesex	110							3	46.21	10.64	do.	0.27	do.	17.0	81			
Pleasantville	Atlantic	8	21	52.8	98	Aug. 5	8	Jan. 17	46	51.09	9.45	Nov.	0.92	May		107	157	108	101
Rahway	Union	20							5	52.45	12.47	Sept.	1.45	do.		97	135	118	113
Ridgefield	Bergen	80	27	52.1	100	Aug. 5†	5	Dec. 22	27	50.35	10.17	do.	0.99	Aug.	39.3	112	127	131	108
Rumson	Middlesex	18	20	50.6	99	do. 5	-8	Jan. 17	21	51.32	12.27	do.	0.73	July		89	184	103	79
Sandy Hook	Monmouth	15	46	53.4	97	do. 5	13	do. 9†	46	48.43	9.60	do.	0.54	do.		109			
Somerville	Somerset	385	58		101	do. 13	2	Dec. 22	61	46.63	6.56	do.	1.42	do.	25.5		141	110	115
Sussex	Sussex	450	46	50.7	97	do. 4†	-7	do. 22	49	41.54	6.22	Nov.	1.21	Oct.	53.6	112	116	87	163
Toms River	Ocean	33							23	54.67	8.63	do.	1.12	May	14.4	92			
Trenton	Mercer	56	72	53.8	97	Aug. 4	10	Dec. 22	72	41.45	7.60	Sept.	0.37	July	18.1	110	100	121	145
Trenton No. 2	Mercer	105	8	53.8	97	do. 5†	8	do. 22	14	49.52	9.82	do.	0.46	do.	24.2	114			
Tuckerton	Ocean	23	46	54.6	99	do. 5	10	Jan. 9	51	46.15	7.15	do.	1.34	do.	14.0	103	179	59	128
Vineland	Cumberland	110							64	47.36	7.37	Apr.	1.37	May		95	174	105	87
Westfield	Union	145							5	49.95	8.68	Sept.	1.46	do.	23.7	88	187	70	109
Woodcliff Lake	Bergen	103							26	47.87	10.23	do.	0.87	July		111			
Woodstown	Salem	16							9	43.12	6.56	June	1.10	do.		68	182	99	85
New York, N.Y.		10	74	53.6	96	Aug. 4	12	Feb. 19	74	51.74	8.61	Sept.	1.54	May	31.8	112	122	116	128
Philadelphia, Pa.		10	74	54.2	97	do. 5	10	Dec. 22	74	39.52	5.82	Sept.	1.05	July	17.2	114	85	121	160
For the State				52.5	104	Aug. 5	-14	Dec. 22		16.78	7.93	Sept.	1.44	July	27.7	104	152	98	116

Figures and letters following station indicate distance in miles and direction of station from the city or town.

† Also on other dates.

(Continued from front page.)

of the hurricane. For further account of hurricane, see climatological data bulletin for September, 1944.

OCTOBER: Month was favorable for harvesting crops. Unusually warm 6-8th. Killing frosts occurred on 16th and 23d most localities with temperature as low as 18° at four stations. Precipitation was two thirds of normal with greatest amounts in south. First snow of season fell on 27th at northern stations, melting as it fell.

NOVEMBER: First half of month was mild; latter half, colder than normal. The wettest November since 1932 with more than twice the normal precipitation. Heavy snowfall for the season occurred on 20-21st in northern part of State.

DECEMBER: Averaged about 3° colder than normal and was the first December in 18 years with no temperatures recorded above the fifties. Coldest day was 22d, when minima ranged from 16° at Cape May to -14° at Layton, Sussex County. Snowfall was near normal.

Monthly and Annual Precipitation for the Year 1944, with Departures from the Normal.

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Atlantic City.....	4.45	+0.96	2.64	-0.84	5.32	+1.72	5.79	+2.80	1.01	-2.04	4.21	+1.17	1.50	-2.43	2.91	-1.58	5.76	+3.11	4.01	+0.81	9.06	+6.24	2.36	-1.58	49.02	+8.34
Barneget City.....	4.14	.....	3.06	.....	3.35	.....	4.78	.....	0.55	.....	0.69	.....	1.35	.....	1.23	.....	7.26	+3.88	4.15	+1.25	6.01	.....	2.46	.....	.....	.....
Belleplain.....	3.45	-0.09	2.42	-0.91	5.92	+2.16	4.42	+0.72	1.74	-1.78	5.26	+1.82	1.24	-3.07	3.77	-0.83	7.26	+3.88	4.15	+1.25	7.56	+5.02	2.67	-1.33	49.86	+6.84
Belmar.....	4.16	.....	2.50	.....	5.82	.....	6.87	.....	1.71	.....	2.62	.....	1.63	.....	4.60	.....	8.09	.....	4.86	.....	7.43	.....	2.74	.....	53.03	.....
Belvidere.....	3.39	-0.37	3.73	+0.17	5.43	+1.74	4.41	+0.65	1.86	-1.68	4.30	+0.30	1.22	-3.32	3.13	-1.44	6.97	+3.23	1.85	-1.97	4.97	+1.78	3.08	-0.83	44.34	-1.74
Berlin.....	4.12	.....	2.30	.....	4.55	.....	3.35	.....	1.95	.....	1.80	.....	0.45	.....	3.20	.....	5.90	.....	1.20	.....	4.66	.....	2.70	.....	36.18	.....
Boonton.....	3.00	-0.38	2.17	-1.13	6.07	+2.43	5.13	+1.23	2.28	-1.42	3.15	-0.81	1.98	-2.66	3.10	-1.59	6.29	+2.44	1.33	-2.58	6.71	+3.70	2.80	-0.90	44.01	-1.67
Bridgeton.....	2.96	-0.49	2.01	-1.21	5.91	+2.07	5.31	+1.71	1.62	-1.65	4.97	+1.05	1.46	-2.99	3.69	-0.98	7.67	+4.36	2.26	-0.84	5.32	+2.72	3.14	-0.56	46.32	+3.19
Brooklawn.....	3.16	.....	2.03	.....	5.29	.....	4.96	.....	1.55	.....	2.76	.....	0.73	.....	2.49	.....	6.93	.....	1.91	.....	4.92	.....	2.92	.....	39.65	.....
Burlington.....	2.10	-1.47	2.27	-1.05	5.97	+2.26	5.20	+1.46	1.37	-2.14	4.13	+0.44	1.63	-3.31	2.13	-3.65	9.49	+5.93	1.68	-1.81	6.14	+3.16	3.30	-0.65	45.41	-0.83
Cane Brook.....	3.66	-0.21	2.81	-0.04	6.62	+2.06	5.47	+1.64	1.87	-1.48	3.48	-1.02	2.59	-1.85	2.75	-2.90	7.41	+2.56	1.75	-1.69	7.29	+3.70	3.64	+0.47	49.34	+1.24
Cape May.....	2.58	-0.79	1.77	-1.52	3.91	+0.12	3.16	+0.17	1.33	-1.66	1.87	-1.17	1.29	-2.49	1.71	-2.55	6.13	+3.13	2.44	-0.86	5.95	+2.73	1.87	-0.47	34.01	-5.36
Charlotteburg.....	3.51	-0.11	2.71	-0.98	5.20	+1.21	5.40	+1.08	1.81	-2.07	4.53	+0.07	1.93	-2.65	2.46	-2.04	4.95	+0.80	1.84	-2.57	6.31	+2.69	4.88	+0.88	45.53	-3.69
Chatham.....	4.75	+0.75	3.00	-0.87	6.20	+2.16	5.37	+1.15	1.97	-1.95	3.26	-0.70	1.59	-3.35	2.82	-1.83	6.87	+2.65	1.76	-2.35	7.12	+3.68	3.63	-0.48	48.40	-1.11
Chatsworth.....	3.47	.....	2.24	.....	6.60	.....	4.98	.....	1.86	.....	2.63	.....	2.20	.....	4.27	.....	9.13	.....	3.35	.....	6.84	.....	2.64	.....	50.21	.....
Clayton.....	3.84	+0.27	1.61	-1.73	4.91	+1.39	5.42	+1.81	1.21	-1.83	3.21	-0.53	1.00	-3.56	3.52	-1.30	6.19	+2.71	2.51	-0.65	5.97	+3.25	3.25	-0.44	42.64	-0.61
Clinton.....	3.83	.....	2.30	.....	5.26	.....	5.40	.....	1.76	.....	4.43	.....	0.73	.....	1.17	.....	5.11	.....	1.64	.....	6.38	.....	3.16	.....	41.17	.....
Culvers Lake.....	2.96	-0.08	2.11	-0.85	4.60	+1.28	4.29	+0.76	1.91	-1.92	7.07	+2.63	3.89	-0.89	3.33	-1.32	5.82	+1.80	1.13	-2.48	4.89	+1.79	3.12	-0.22	45.12	+0.60
Dover.....	2.45	-1.55	2.61	-1.16	6.39	+2.37	5.53	+1.47	1.91	-1.72	3.75	-0.68	1.69	-3.52	1.34	-3.16	5.00	+0.92	1.76	-2.38	6.87	+3.32	5.38	+1.20	44.68	-4.83
Elizabeth.....	5.35	+1.65	2.82	-1.04	7.28	+3.32	5.85	+2.01	1.97	-1.67	4.30	+0.70	2.14	-2.58	2.53	-1.80	12.42	+8.81	2.47	-1.48	8.37	+5.45	3.69	-0.23	59.19	+13.14
Flemington.....	3.51	+0.04	2.40	-0.92	5.72	+2.06	5.10	+1.48	1.42	-2.10	5.74	+2.13	0.86	-3.99	0.72	-3.80	5.16	+1.52	1.63	-1.88	6.18	+3.23	2.99	-0.67	41.43	-2.90
Fort Dix, A. A. B. ....	.....	.....	.....	.....	5.18	.....	6.09	.....	1.21	.....	4.59	.....	0.96	.....	3.78	.....	9.35	.....	2.48	.....	6.99	.....	2.55	.....	.....	.....
Freehold.....	3.18	-0.84	2.31	-1.63	5.94	+1.46	6.40	+2.69	2.19	-1.53	5.19	+1.44	0.44	-4.31	3.21	-1.42	11.46	+7.08	3.33	-0.35	7.01	+3.18	3.03	-0.55	53.69	+5.22
Hammononton.....	4.21	+0.47	1.70	-1.54	6.26	+2.34	5.52	+1.74	1.04	-2.57	2.60	-1.16	1.32	-3.22	4.52	-0.36	7.61	+3.40	5.43	+1.58	4.19	+1.15	2.85	-1.13	47.25	+0.70
Hightstown.....	3.72	+0.25	2.10	-1.29	6.13	+2.85	5.86	+1.97	1.22	-2.39	5.74	+1.98	0.45	-4.47	2.16	-2.86	11.54	+8.33	1.82	-1.88	5.97	+3.06	3.14	-0.40	49.85	+4.65
Indian Mills.....	3.78	-0.19	2.17	-1.50	6.35	+2.27	4.92	+1.12	1.94	-1.40	1.93	-2.00	1.67	-3.08	3.25	-2.28	7.08	+3.59	2.49	-1.20	5.77	+2.77	2.56	-1.55	43.91	-3.45
Jersey City.....	3.22	-0.48	2.41	-1.52	6.35	+2.33	5.44	+1.69	1.82	-1.63	3.60	-0.18	2.96	-1.39	2.03	-2.30	8.99	+5.59	2.61	-1.46	6.91	+3.91	3.95	+0.30	50.32	+4.86
Lakewood.....	4.72	+0.72	2.67	-1.22	5.78	+1.61	7.21	+3.26	1.63	-2.15	2.83	-1.18	1.48	-3.52	4.02	-1.17	8.35	+5.31	4.26	+0.46	8.06	+4.97	2.82	-1.37	53.83	+5.72
Lambertville [near].....	3.82	+0.36	2.20	-1.18	5.68	+1.89	6.05	+2.25	2.16	-1.50	4.72	+0.96	0.59	-4.05	1.23	-3.57	6.39	+3.03	1.89	-1.66	6.17	+3.17	2.57	-1.13	43.47	-1.43
Lavton [near].....	1.86	-1.12	1.48	-1.51	2.75	-0.54	5.13	+1.64	2.43	-0.71	3.99	+0.54	2.97	-1.43	6.37	+2.28	6.21	+2.35	0.50	-3.25	3.23	+0.16	1.74	-1.63	38.66	-4.30
Little Falls.....	3.91	+0.24	2.19	-1.31	5.85	+2.08	5.95	+1.79	1.65	-2.29	4.84	+0.82	1.07	-3.65	3.41	-1.55	8.89	+5.21	1.56	-3.03	6.62	+3.22	3.90	+0.46	50.14	+1.99
Long Branch.....	4.33	+0.19	2.80	-1.33	6.17	+2.00	7.30	+3.03	1.31	-2.54	5.76	+1.90	0.22	-5.63	4.61	-0.87	11.13	+7.94	3.53	-0.86	7.40	+3.84	2.94	-1.21	57.50	+6.46
Long Valley.....	2.23	-0.94	3.27	+0.45	6.34	+2.47	5.57	+2.15	1.61	-1.73	3.98	-0.53	1.06	-4.25	1.21	-4.13	5.56	+0.99	1.71	-1.64	6.25	+2.04	3.20	-0.04	41.99	-5.16
Marlton.....	3.09	.....	1.95	.....	5.86	.....	5.43	.....	1.47	.....	3.38	.....	0.98	.....	2.93	.....	7.52	.....	2.20	.....	6.29	.....	2.77	.....	43.87	.....
Mays Landing.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.18	.....	8.42	.....	3.09	.....	5.96	.....	2.36	.....	.....	.....
Millville.....	4.07	.....	2.22	.....	6.15	.....	7.02	.....	1.60	.....	5.32	.....	1.06	.....	4.21	.....	8.46	.....	2.69	.....	5.23	.....	2.56	.....	50.59	.....
Moorestown.....	3.21	-0.13	1.91	-1.34	5.13	+1.45	5.07	+1.42	1.55	-1.97	2.88	-0.90	1.45	-3.25	2.91	-2.46	8.31	+4.78	2.09	-1.39	4.93	+2.02	2.97	-0.80	42.41	-2.57
Morris Plains.....	3.32	.....	2.08	.....	6.50	.....	5.15	.....	3.70	.....	4.20	.....	1.47	.....	1.60	.....	6.71	.....	2.15	.....	7.55	.....	4.80	.....	49.43	.....
Newark.....	4.45	+0.79	2.46	-0.99	6.45	+2.70	4.85	+0.97	1.55	-2.32	3.52	-1.00	2.43	-2.52	2.29	-2.26	10.28	+6.59	2.35	-2.01	7.41	+4.32	2.96	-1.00	51.00	+3.27
New Brunswick.....	4.46	+1.06	2.60	-0.77	5.70	+2.14	5.13	+1.52	2.10	-1.56	3.40	-0.28	0.68	-4.55	2.30	-3.10	12.63	+9.27	1.94	-1.88	6.76	+3.92	2.84	-0.70	50.54	+5.07
New Milford.....	3.54	+0.08	2.17	-0.90	5.62	+1.95	5.88	+2.16	1.95	-1.49	3.45	-0.57	0.67	-3.86	2.95	-1.41	7.95	+3.60	1.92	-1.17	6.48	+3.37	3.19	+0.23	45.77	+1.99
Newton.....	2.51	-0.79	1.52	-1.63	4.05	+0.66	4.83	+1.30	2.06	-1.55	7.15	+2.67	2.70	-2.13	3.44	-0.91	6.05	+2.29	1.45	-2.20	3.41	+0.34	2.54	-0.87	41.71	-2.82
Orange.....	4.12	.....	2.49	.....	6.82	.....	5.12	.....	1.81	.....	3.68	.....	2.16	.....	1.88	.....	7.96	.....	1.58	.....	7.60	.....	2.58	.....	47.80	.....
Paterson.....	2.21	-1.32	2.04	-1.94																						

Monthly and Annual Mean Temperatures for the Year 1944, with Departures from the Normal

STATIONS.	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic City.....	36.0	+3.5	35.9	+2.3	39.6	+1.0	48.4	+0.6	61.2	+3.1	69.8	+3.2	73.3	+1.2	72.9	+0.4	68.7	+1.9	57.2	+0.3	46.6	+1.0	35.2	-1.2	53.7	+1.4
Barneget City.....	35.3	.....	35.3	.....	38.9	.....	48.1	.....	59.8	.....	69.4	.....	72.4	.....	72.8	.....	67.5	.....	56.0	.....	45.9	.....	33.5	.....	52.9	.....
Belleplaine.....	33.4	-0.2	34.0	+1.3	38.9	-2.5	48.9	-1.4	64.6	+3.8	68.9	-0.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Belvidere.....	30.8	+2.8	31.2	+3.0	36.2	-2.3	47.3	-2.4	67.2	+6.4	70.4	+1.0	76.8	+3.1	74.6	+3.3	67.0	+1.9	52.9	-2.0	41.8	+0.4	29.0	-2.1	52.1	+1.1
Boonton.....	29.6	+1.7	29.0	+1.0	34.4	-1.5	46.1	-1.9	64.1	+5.3	68.8	+1.3	75.2	+3.0	73.2	+2.7	65.0	+1.5	51.0	-1.2	42.0	+0.6	28.7	-1.6	50.6	+0.9
Bridgeton.....	34.8	+1.0	35.6	+1.6	40.5	-1.9	51.9	-0.3	68.4	+5.0	72.6	+0.5	77.6	+1.1	75.6	+0.9	69.6	+1.3	54.8	-2.1	45.2	-0.5	32.4	-3.8	54.9	+0.2
Burlington.....	33.3	+0.1	33.6	+0.4	38.8	-3.5	49.8	-2.1	68.4	+6.0	72.8	+1.4	78.8	+2.9	76.8	-2.5	69.2	+1.5	55.6	-1.6	45.6	-0.1	31.2	-4.2	54.5	-0.1
Canoe Brook.....	30.4	+1.0	29.8	+1.2	35.6	-1.4	46.2	-0.7	64.4	+5.7	69.4	+2.1	75.4	+3.3	74.9	+4.2	65.3	+1.5	49.6	-2.8	41.0	-0.7	27.8	-3.9	50.8	+0.8
Cape May.....	36.4	+2.3	36.6	+2.5	40.0	-0.8	50.0	+1.6	62.6	+3.9	70.4	+2.7	73.7	+0.3	72.9	-0.5	69.4	+0.4	57.8	-1.8	47.3	-0.1	35.5	-2.5	54.4	+0.7
Charlotteburg.....	29.6	+2.1	28.6	+1.6	34.0	-2.3	45.0	-1.7	63.4	+5.7	67.6	+2.0	71.1	+0.7	70.8	+2.5	64.0	+1.7	50.5	-0.9	41.0	+0.3	27.8	-2.8	49.4	+0.7
Chatsworth.....	32.8	.....	33.1	.....	37.6	.....	49.0	.....	67.2	.....	70.8	.....	76.4	.....	75.1	.....	67.6	.....	53.4	.....	43.0	.....	31.7	.....	53.1	.....
Clayton.....	34.8	+2.9	34.0	+2.4	40.4	-1.4	50.8	-0.1	63.3	+6.7	71.8	+2.2	77.0	+1.8	75.2	+1.9	67.8	-0.8	55.2	-1.2	45.4	+1.0	33.2	-1.4	54.5	+1.3
Dover.....	29.6	+2.3	29.0	+1.8	34.4	-1.6	45.8	-1.6	63.3	+4.6	67.8	+0.8	73.7	+2.1	72.8	+3.5	64.1	+1.6	50.4	-1.0	41.0	+0.3	28.2	-2.2	50.0	+0.9
Elizabeth.....	32.4	+1.5	32.4	+1.2	38.0	-1.4	49.5	-1.4	67.6	+5.8	73.0	+2.4	77.4	+2.4	77.4	+4.0	68.4	+1.5	55.0	-0.2	45.0	+1.1	31.0	-2.8	54.0	+1.2
Flemington, 2 mi. NE.	33.5	+3.0	32.7	+2.4	38.4	-2.2	49.8	-0.4	67.3	+5.9	72.6	+2.7	77.8	+2.9	76.8	+4.0	68.8	+2.1	55.6	0.0	44.8	+1.2	30.8	-2.2	54.1	+1.6
Fort Dix, A. A. B.....	33.1	+0.4	32.7	+1.6	38.0	-1.0	47.9	-2.3	65.4	+3.4	70.2	-0.8	75.9	+1.2	74.1	+1.1	66.7	+0.6	53.3	-2.0	43.2	-1.9	30.5	-4.5	52.6	-0.3
Freehold.....	33.1	+0.4	32.7	+1.6	38.0	-1.0	47.9	-2.3	65.4	+3.4	70.2	-0.8	75.9	+1.2	74.1	+1.1	66.7	+0.6	53.3	-2.0	43.2	-1.9	30.5	-4.5	52.6	-0.3
Hammonton.....	34.6	+0.5	34.0	-0.5	39.8	-1.7	49.7	-2.3	66.8	+3.6	72.2	+0.8	77.4	+1.5	74.4	+0.2	67.8	+0.8	55.4	-1.0	45.4	+3.0	30.8	-2.4	54.0	+0.2
Hightstown.....	33.2	+2.7	33.2	+2.2	38.0	-2.6	48.1	-2.1	65.6	+4.7	70.6	+1.4	76.0	+1.8	74.3	+2.1	66.7	+0.2	53.6	-1.3	44.0	+0.2	30.8	-2.6	52.8	+0.5
Indian Mills.....	33.1	+0.7	33.4	+0.7	38.4	-2.7	49.2	-1.3	67.0	+5.2	71.2	+2.1	76.2	+1.6	74.0	+1.4	67.4	+1.0	53.8	-1.5	44.0	+0.1	31.6	-3.0	53.3	+0.3
Jersey City.....	32.2	-0.4	32.0	+0.3	37.1	-2.8	48.2	-1.9	64.4	+2.7	70.4	-0.6	75.8	-0.1	75.6	+1.6	66.7	-0.9	53.9	-2.5	43.2	-1.7	30.0	-5.0	52.5	-0.9
Lakewood.....	34.2	+2.0	34.4	+2.9	38.4	-1.9	48.6	-1.0	65.4	+5.0	70.6	+1.8	76.2	+2.7	74.6	+3.1	67.4	+2.2	54.0	-0.4	44.1	+0.3	32.6	-1.9	53.4	+1.3
Lambertville.....	32.0	+1.2	32.5	+1.9	37.8	-1.4	48.2	-1.8	65.6	+4.6	71.2	+1.7	76.0	+1.9	75.6	+3.3	66.8	+1.0	53.2	-1.2	43.9	+0.7	30.5	-2.9	52.8	+0.8
Layton, 3 mi. NW.....	27.9	+2.3	27.8	+2.5	32.4	-3.4	43.9	-2.8	63.6	+5.9	67.8	+1.7	72.0	+0.8	70.4	+1.7	61.6	-0.9	50.0	-0.9	40.2	+0.7	25.5	-2.6	48.6	+0.4
Little Falls.....	30.8	+1.3	30.9	+0.6	35.8	-3.1	47.6	-1.8	65.2	+4.9	70.6	+1.4	75.6	+1.6	74.5	+2.4	66.4	+1.1	52.8	-1.3	43.0	-0.1	30.2	-2.6	52.0	+0.4
Long Branch.....	33.3	+1.3	32.9	+1.6	37.0	-2.3	47.6	-0.6	63.3	+4.8	69.5	+1.8	75.6	+2.7	74.8	+3.3	67.2	+1.3	54.3	-0.9	44.4	0.0	32.4	-2.3	52.7	+0.9
Long Valley.....	28.8	+1.1	28.5	+1.0	33.1	-2.0	43.6	-4.2	61.7	+2.5	66.8	-1.1	71.6	+0.1	70.6	+1.1	62.4	-0.3	49.8	-1.9	42.2	+1.3	27.4	-2.8	48.9	-0.4
Moorestown.....	34.2	+3.0	32.4	+0.6	38.6	-1.3	48.8	-1.6	66.2	+4.9	70.7	+0.5	76.3	+1.5	74.2	+1.5	67.6	+1.4	53.1	-1.8	43.8	+0.7	31.4	-2.6	53.1	+0.6
Newark.....	32.6	+2.7	32.0	+2.4	36.7	-2.7	48.2	-1.8	65.6	+4.4	71.4	+1.8	77.8	+3.1	76.2	+3.2	68.2	+1.8	54.5	-1.1	44.3	+0.5	30.6	-3.1	53.2	+1.0
New Brunswick.....	33.4	+2.8	33.0	+1.9	38.0	-1.2	48.7	-0.9	66.0	+5.5	71.4	+2.1	76.5	+2.4	75.4	+3.2	67.9	+2.1	54.8	0.0	44.3	+0.6	31.0	-2.5	53.4	+1.4
Newton.....	30.2	+3.6	28.8	+1.6	33.0	-3.0	46.0	-1.8	.....	.....	69.7	+1.8	74.2	+1.6	72.8	+2.4	65.1	+1.3	.....	.....	41.0	+0.1	26.0	-4.4	.....	.....
Paterson.....	29.9	-0.3	29.6	-1.1	34.5	-2.6	46.2	-4.4	65.0	+3.5	70.4	+0.3	76.2	+1.6	75.1	+2.9	66.2	-0.1	52.4	-2.7	42.4	-1.4	29.8	-3.7	51.5	-0.6
Pemberton.....	34.4	-0.1	35.0	+1.4	39.8	-1.7	50.2	-0.7	68.0	+5.0	72.6	+1.0	77.4	+1.5	75.8	+1.4	69.2	+1.5	56.3	+0.6	45.7	-0.5	33.1	-3.1	54.8	+0.5
Phillipsburg.....	31.6	+2.8	30.2	+1.3	35.0	-3.5	47.0	-2.4	65.4	+4.3	69.6	+0.1	74.4	+0.5	73.1	+1.3	64.4	-0.8	52.2	-1.3	41.8	-0.1	27.6	-4.2	51.0	-0.2
Plainfield.....	33.2	+2.9	32.3	+2.6	37.4	-1.7	48.6	-0.8	66.1	+5.9	70.4	+1.5	76.8	+2.9	75.2	+3.4	67.2	+1.6	54.0	0.0	44.4	+1.5	31.0	-2.1	53.0	+1.4
Pleasantville.....	33.9	+0.3	34.2	+0.6	38.6	-1.8	48.6	0.0	63.3	+4.3	70.2	+1.7	73.8	+0.2	73.0	+0.8	67.2	+1.3	53.9	-0.9	44.4	-0.6	32.6	-2.9	52.8	+0.3
Ridgefield.....	31.3	+1.8	30.8	+1.0	36.0	-2.5	47.1	-1.3	64.9	+5.0	70.1	+1.4	76.6	+2.9	75.2	+3.4	67.4	+2.3	53.2	-0.6	42.8	+0.2	29.7	-2.5	52.1	+0.9
Runyon.....	29.0	-1.7	30.0	-0.8	34.8	-4.6	44.6	-3.5	66.0	+6.5	70.4	+1.8	72.8	-0.2	72.3	+0.6	64.4	+0.1	51.7	-1.1	43.0	-0.2	27.8	-4.6	50.6	-0.6
Sandy Hook.....	33.3	+2.0	34.6	+2.5	36.6	-2.7	47.0	-1.3	63.2	+4.8	70.2	+2.4	76.6	+3.1	75.8	+3.3	68.4	+0.9	56.2	-0.5	45.7	-0.1	32.8	-2.4	53.4	+1.0
Somerville, 2 mi. N.....	32.0	+2.5	31.4	+1.5	36.8	-2.0	47.8	-1.6	65.9	+5.4	71.1	+2.0	76.4	+2.4	74.6	+2.3	.....	.....	.....	.....	43.1	+0.3	29.5	-0.3	.....	.....
Sussex.....	29.5	+2.3	29.9	+3.0	34.2	-2.6	45.8	-2.6	65.0	+5.3	69.3	+1.9	73.4	+1.1	72.0	+2.0	64.6	+0.3	51.4	-1.5	44.0	+2.6	29.6	-0.6	50.7	+0.9
Trenton.....	33.9	+3.4	33.4	+2.7	37.9	-1.2	48.9	-0.9	67.0	+5.9	71.2	+1.7	77.8	+3.3	75.3	+2.3	67.8	+0.9	55.0	-0.6	45.2	+0.8	31.8	-2.6	53.8	+1.3
Trenton No. 2.....	33.8	.....	33.2	.....	38.4	.....	49.2	.....	67.4	.....	71.8	.....	77.6	.....	75.4	.....	67.6	.....	54.4	.....	44.8	.....	31.6	.....	53.8	.....
Tuckerton.....	36.7	+2.7	36.2	+2.9	39.8	-1.4	49.4	0.0	64.7	+4.8	71.4	+2.5	76.0	+1.8	73.8	+1.1	68.5	+1.8	56.6	+0.1	46.8	+1.4	34.9	-1.3	54.6	+1.4
New York, N. Y.....	34.2	+3.3	32.6	+1.3	37.0	-0.7	48.2	-1.2	65.1	+4.5	70.4	+1.6	77.2	+3.4	75.9	+2.8	68.3	+1.5	56.3	0.0	46.0	+1.8	32.4	-2.6	53.6	+1.3
Philadelphia, Pa.....	34.0	+2.9	33.8	+1.3	38.5	-0.6	49.4	-1.2	67.4	+5.3	72.2	+1.6	78.4	+3.1	75.4	+2.1	68.6	+2.7	54.7	-0.8	45.6	+1.7	32.2	-2.4	54.2	+1.3
For The State.....	32.5	+1.6	32.3	+1.7	37.1	-2.1	47.9	-1.7	65.3	+4.9	70.4	+1.4	75.6	+1.8	73.9	+1.9	66.8	+1.0	53.7	-0.9	43.9	+0.2	30.7	-3.1	52.5	+0.5

Reference letters, as a, b, c, in table indicate number of days missing; for example, b represents 2 days.

* Monthly mean interpolated.

KILLING FROSTS

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
Atlantic City.....	Apr. 6	Nov. 12	Layton.....	May 19	Oct. 16
Barneget City.....	do. 6*	do. 23*	Little Falls.....	Apr. 19	do. 16
Belleplaln.....	do. 29*	Oct. 16	Long Branch.....	do. 14	do. 16
Belvidere.....	do. 28*	do. 16	Long Valley.....	do. 20*	do. 16
Boonton.....	do. 19*	do. 16	Moorestown.....	do. 14*	do. 16
Bridgeton.....	do. 6	do. 16	Newark.....	do. 14*	do. 16
Burlington.....	do. 6*	do. 16	New Brunswick.....	do. 14	do. 16
Canoe Brook.....	do. 30*	do. 1*	Newton.....	do. 19*	do. 16
Cape May.....	do. 5*	Nov. 26*	Paterson.....	do. 19*	do. 16
Charlotteburg.....	May 19*	Sept. 25*	Pemberton.....	do. 14*	do. 16
Chatsworth.....	Apr. 29*	Oct. 16			
Clayton.....	do. 6*	do. 16	Phillipsburg.....	do. 14	do. 16
			Plainfield.....	do. 14*	do. 16
Dover.....	do. 19*	do. 16	Pleasantville.....	do. 14*	do. 16
Elizabeth.....	do. 19*	do. 16	Ridgefield.....	do. 14	do. 16
Flemington.....	do. 14*	do. 16	Runyon.....	do. 28*	do. 16
Fort Dix.....	do. 14*	do. 16*	Sandy Hook.....	do. 6	Nov. 12
Freehold.....	do. 14	do. 16	Somersville.....	do. 19*	Oct. 16
Hammonon.....	do. 14*	do. 16	Sussex.....	do. 29	do. 16
Hightstown.....	do. 14*	do. 16	Trenton.....	do. 6	do. 16
Indian Mills.....	do. 14	do. 16	Tuckerton.....	do. 6*	do. 16
Jersey City.....	do. 14*	Nov. 13*			
Lakewood.....	do. 14	Oct. 16	For the State.....	May 19	Oct. 1
Lambertville.....	do. 14*	do. 16			

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. L. JANUARY 1945. No. 1

GENERAL SUMMARY.

This was the coldest January for five years averaging 6.5° colder than normal. At Trenton, there were only four days warmer than normal during the month. The coldest weather was from the 24th to 26th, as a result of a cold wave that began on the afternoon of the 24th. On the morning of the 25th, zero temperatures were registered in central New Jersey and readings near -10° in the northern part of the State. Stations in north Jersey recorded freezing temperatures on every day of the month and on about half the days maximum readings were below the freezing point. Monthly minima, however, were not nearly so low as in some previous years.

Precipitation was 83 percent of normal. It was heaviest over the northern counties with only the Highlands area averaging more than the normal amount. Snowfall was much greater than normal and the heaviest for January since 1935. The ground was snow-covered from January 7th until well into February, except the southern part of the State. In north Jersey, the snow-cover continued quite deep due to the colder weather and heavier falls in that area. Seven stations had snowfall for the month of 25 inches or more. An unusual feature was the almost continuous slippery condition of roads and pavements. These conditions were caused by packing of snow, thawing and subsequent freezing, and to some extent by freezing rain. Accidents were exceedingly numerous, especially to pedestrians falling on icy pavements.

Sunshine was several percent above normal. Winds were strong on the 1st and 24th, but only light damage was caused.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 42 stations, was 24.4°, which was 6.5° below normal. The highest temperature was 60° at Burlington on the 1st, and the lowest, -10°, at Long Valley on the 26th. The highest monthly average temperature was 35.5° at Tuckerton, and the lowest, 18.8° at Newton.

The temperature departure from the normal for the year 1945 to date, for the State, is -6.5°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 61 stations, was 3.04 inches, which was 0.61 inch below normal. The average total snowfall at 30 selected stations was 13.0 inches, which was 5.7 inches above normal. The greatest monthly precipitation was 6.27 inches at Elizabeth, and the least, 1.71 inches at Clayton. The greatest amount of precipitation in any 24 consecutive hours was 2.81 inches at Elizabeth on the 16-17th.

The average for the Highlands was 3.95 inches; for the Red Sandstone Plain, 3.26 inches; for the Southern Interior, 2.60 inches; and for the Sea Coast, 2.87 inches.

The precipitation, accumulated departure from the normal for the year 1945, to date, by sections, the Highlands, +0.53 inch; Red Sandstone Plain, -0.37 inch; Southern Interior, -1.02 inches; Sea Coast, -0.89 inch.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 1, 7, 9.
THUNDERSTORMS: None.
SLEET: 1, 7, 8, 9, 12, 14, 15, 16, 17, 22, 28, 29.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.50	3	29.16	1	16.8	50	s.	1	72	60	66	58	1107
Long Branch.....	30.49	3	29.10	1	15.1	58	n.w.	24	70	60	63	59	1238
Trenton.....	30.50	3	29.03	1	10.4	34	n.w.	24	68	55	58	55	1240

COMPARATIVE DATA FOR JANUARY.

1885.....	30.8	67	0	4.08	.....	.....	.....	.....	.....	.....	.....	.....	.....
1886.....	27.3	60	-10	4.47	.....	.....	.....	.....	.....	.....	.....	.....	.....
1887.....	28.4	67	-6	3.86	.....	.....	.....	10	.....	.....	.....	.....	.....
1888.....	25.4	59	-12	4.77	.....	.....	.....	9	.....	.....	.....	.....	.....
1889.....	36.2	60	8	5.68	.....	.....	.....	9	.....	.....	.....	.....	.....
1890.....	41.3	78	12	2.29	.....	.....	.....	10	.....	.....	.....	.....	.....
1891.....	34.2	59	10	6.57	.....	.....	.....	10	10	11	10	.....	.....
1892.....	29.9	67	-6	5.13	.....	.....	.....	10	10	9	12	.....	.....
1893.....	21.6	54	-21	3.04	.....	.....	.....	9	10	10	11	.....	.....
1894.....	34.2	61	-4	2.34	.....	.....	.....	11	10	8	13	.....	.....
1895.....	28.1	64	-4	4.66	.....	.....	.....	9.7	11	10	11	.....	.....
1896.....	28.6	61	-7	1.66	.....	.....	.....	5	12	10	9	.....	.....
1897.....	29.0	64	-6	2.80	.....	.....	.....	11.5	9	11	8	.....	.....
1898.....	32.6	64	-10	4.20	.....	.....	.....	9.7	11	9	11	.....	.....
1899.....	30.1	60	-21	4.01	.....	.....	.....	6.0	11	13	8	.....	.....
1900.....	32.4	64	-5	3.85	.....	.....	.....	2.6	10	11	11	.....	.....
1901.....	30.4	63	-6	2.52	.....	.....	.....	5.4	9	11	11	.....	.....
1902.....	28.4	58	-5	3.28	.....	.....	.....	8.6	10	12	9	.....	.....
1903.....	30.4	57	-5	3.90	.....	.....	.....	6.4	10	10	10	.....	.....
1904.....	23.3	58	-34	3.09	.....	.....	.....	15.6	10	13	7	.....	.....
1905.....	27.0	60	-16	4.18	.....	.....	.....	21.3	9	12	9	.....	.....
1906.....	36.5	74	-5	2.85	.....	.....	.....	3.1	11	11	9	.....	.....
1907.....	31.8	71	-19	3.50	.....	.....	.....	10.3	14	8	9	.....	.....
1908.....	31.8	60	-6	3.74	.....	.....	.....	9.9	9	12	11	.....	.....
1909.....	33.2	69	-12	3.18	.....	.....	.....	7.5	12	8	9	.....	.....
1910.....	29.7	54	-15	5.04	.....	.....	.....	13.3	15	8	8	.....	.....
1911.....	33.5	63	0	3.44	.....	.....	.....	3.6	14	10	7	.....	.....
1912.....	22.3	58	-32	2.82	.....	.....	.....	13.4	13	8	12	.....	.....
1913.....	39.5	68	10	3.58	.....	.....	.....	0.8	14	11	7	.....	.....
1914.....	31.9	73	-12	3.85	.....	.....	.....	2.4	9	9	8	.....	.....
1915.....	33.5	61	3	6.55	.....	.....	.....	3.4	12	11	6	.....	.....
1916.....	35.1	74	-2	1.50	.....	.....	.....	1.9	11	11	8	.....	.....
1917.....	31.4	58	0	3.26	.....	.....	.....	5.4	13	10	8	.....	.....
1918.....	20.3	56	-16	4.14	.....	.....	.....	18.9	11	12	8	.....	.....
1919.....	34.1	62	-7	3.51	.....	.....	.....	1.3	8	14	7	.....	.....
1920.....	23.6	53	-10	2.60	.....	.....	.....	6.6	11	11	7	.....	.....
1921.....	33.0	63	-5	2.63	.....	.....	.....	2.7	9	13	8	.....	.....
1922.....	27.6	57	-11	2.67	.....	.....	.....	11.1	8	15	6	.....	.....
1923.....	30.1	66	-14	5.22	.....	.....	.....	16.6	12	9	7	.....	.....
1924.....	32.2	65	-6	1.48	.....	.....	.....	1.4	8	15	8	.....	.....
1925.....	27.4	59	-20	4.43	.....	.....	.....	22.8	10	12	6	.....	.....
1926.....	30.8	63	-9	2.61	.....	.....	.....	2.4	9	11	8	.....	.....
1927.....	29.2	70	-12	2.22	.....	.....	.....	7.9	11	11	7	.....	.....
1928.....	32.5	65	-15	2.26	.....	.....	.....	8.3	8	15	8	.....	.....
1929.....	30.7	67	-4	3.49	.....	.....	.....	1.6	10	13	7	.....	.....
1930.....	31.7	72	-14	2.92	.....	.....	.....	5.9	10	10	6	.....	.....
1931.....	31.6	64	-5	2.16	.....	.....	.....	1.6	5	16	7	.....	.....
1932.....	42.4	76	18	4.50	.....	.....	.....	1.5	13	8	6	.....	.....
1933.....	38.5	67	2	2.39	.....	.....	.....	1.2	8	13	7	.....	.....
1934.....	33.6	64	-1	2.59	.....	.....	.....	0.2	8	11	8	.....	.....
1935.....	28.2	65	-26	4.00	.....	.....	.....	15.8	11	13	5	.....	.....
1936.....	27.2	59	-15	6.34	.....	.....	.....	9.1	13	13	7	.....	.....
1937.....	40.3	72	9	6.36	.....	.....	.....	2.2	16	6	6	.....	.....
1938.....	31.0	68	-19	3.64	.....	.....	.....	4.0	12	10	7	.....	.....
1939.....	30.9	65	-10	3.98	.....	.....	.....	10.2	11	11	6	.....	.....
1940.....	22.4	62	-13	1.95	.....	.....	.....	5.6	7	16	6	.....	.....
1941.....	29.4	58	-7	3.47	.....	.....	.....	8.8	10	12	6	.....	.....
1942.....	28.9	66	-23	2.98	.....	.....	.....	5.5	7	13	7	.....	.....
1943.....	30.3	63	-2	2.97	.....	.....	.....	7.3	10	10	8	.....	.....
1944.....	32.5	69	-10	3.50	.....	.....	.....	4.3	7	11	9	.....	.....
1945.....	24.4	60	-10	3.04	.....	.....	.....	13.0	9	13	7	.....	.....
Period.....	30.9	78	-34	3.65	.....	.....	.....	7.3	10	11	8	.....	.....

Climatological Data for January 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	72	29.2	-3.3	53	1	4	25	2.83	-0.66	0.74	7†	0.1	8	10	5	16	w.	U. S. Weather Bureau.
Barneget City	Ocean	36	6	27.2		53	1	2	25	2.61		0.90	7		8					U. S. Coast Guard.
Belleplain	Cape May	49	51																	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	4							2.78		1.23	16		9					City Water Dept.
Belvidere	Warren	289	53	22.3	-5.7	48	1	2	25	4.25	+0.58	1.62	16	25.0	7	16	3	12	sw.	Miss C. S. Hixson.
Berlin	Camden	70	4							2.65		0.70	8		9					Samuel H. McCulley.
Boonton	Morris	280	55	20.9	-7.0	55	1	3	25	3.72	+0.39	1.40	1		10	14	0	17	nw.	John Kline.
Bridgeton	Cumberland	30	62	28.1	-5.7	55	1	10	26	2.27	-1.25	0.92	16	1.5	8	13	8	10	uw.	Bennett K. Matlack.
Brooklawn	Camden	30	4							2.59		0.95	15-16	7.6	5					C. D. Scott.
Burlington	Burlington	12	559	26.9	-6.3	60	1	0	25	2.76	-0.72	1.02	12	8.0	12	11	7	13	w.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	15	20.0	-9.4	52	1	8	20†	3.64	-0.15	0.74	1		12	14	9	8	nw.	N. J. Water Policy Comm.
Cape May	Cape May	17	57	29.1	-5.0	50	1	8	25	2.63	-0.77	0.75	7		T	9	9	13	nw.	Naval Air Station.
Charlotteburg††	Passaic	760	53	21.7	-5.8	53	1	5	12†	4.65	+1.00	1.33	1	31.5	13	8	5	18	nw.	Newark Water Dept.
Chatham	Morris	185	41							3.26	-0.74	0.75	1	14.9	12	12	11	8		Edward P. Molitor.
Chatsworth	Burlington	90	5	26.0		59	1	0	25	2.45		0.65	7		5	10	13	8	nw.	Alfred L. Stevenson.
Clayton	Gloucester	120	32	26.8	-5.1	42	1	1	25	1.71	-0.71	0.68	16	6.1	8	12	4	15	n.	Worthy Hitt.
Clinton	Hunterdon	300	2							3.33		1.17	31-1	15.8	11	10	7	14	nw.	L. W. Klockner.
Culvers Lake††	Sussex	760	44							4.22	+1.11	1.50	31-1	29.9	7					L. S. Depue.
Dover	Morris	600	61							3.86	-0.24	1.44	31-1	22.0	6	9	12	10		William C. Harris.
Elizabeth	Union	34	66	25.2	-5.7	57	1	1	25	6.27	+2.81	2.81	16-17	18.2	10	13	6	12	nw.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	140	559	25.1	-5.4	52	1	2	25	3.51	+0.07	1.45	1	14.0	10	15	7	9	nw.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120	1	24.2		58	1	0	25	2.06		0.77	16	9.1	10	9	6	16	nw.	A. A. B. Weather Station.
Freehold	Monmouth	194	541	24.4	-8.3	58	1	4	25	3.65	-0.31	0.78	16	9.5	8	18	5	8	w.	Moreau Plant Co.
Hammononton	Atlantic	95	339	25.2	-8.9	58	1	0	25	1.74	-2.08	0.70	6-7	5.0	6	7	12	12	w.	J. G. Wilson.
Hightstown	Mercer	110	52	24.3	-6.2	58	1	3	25	2.39	-1.02	0.77	16	11.3	9	14	9	8	w.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington	100	56	26.0	-6.4	59	1	1	25	2.70	-1.17	0.83	16	7.4	8	13	9	9	w.	Edward Entwistle.
Jersey City	Hudson	81	47	23.2	-9.4	52	1	0	25	2.04	-1.50	0.62	16		8	15	4	12	nw.	J. C. Water Dept.
Lakewood	Ocean	54	41	26.6	-5.6	57	1	0	25	2.97	-0.88	0.67	1	10.5	9	7	10	14	nw.	R. W. Holman.
Lambertville	Hunterdon	75	58	24.4	-6.4	55	1	2	25	3.69	+0.14	1.20	16	14.5	6	13	6	12	nw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex	480	44	19.1	-6.5	49	1	7	11†	3.33	+0.39	1.51	15-16	35.7	12	12	3	16	nw.	A. M. Depue.
Little Falls	Passaic	157	42	23.2	-6.3	56	1	0	25	3.60	-0.11	0.60	16-17	14.2	11	15	5	11	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	37	24.9	-7.1	56	1	1	25	3.76	-0.36	1.37	16	13.2	9	13	6	12	n.	Storm Warn. Display Sta.
Long Valley	Morris	660	15	20.8	-6.9	50	1	-10	26	3.87	+0.67	1.37	1	25.0	11	16	7	8	w.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	4							2.50		0.74	16	9.5	9	12	10	9	nw.	David Griscom.
Mays Landing	Atlantic	50	1							2.29		0.57	16	2.0	11				nw.	Elmer Earle.
Millville	Cumberland	60	5							2.41		0.69	7		8	7	11	13		Paul Ritchie.
Moorestown	Burlington	62	82	24.8	-6.4	58	1	1	25	3.11	-0.31	0.69	15-16	10.9	12	13	2	16	nw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	500	4							1.99		0.56	16	18.5	7	16	3	12		James C. Long.
Newark	Essex	10	91	24.0	-5.9	58	1	0	25	2.94	-0.86	1.02	16	15.3	10	10	8	13	nw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	91	25.2	-5.4	59	1	3	25	2.62	-1.01	0.79	31-1	14.6	7	19	2	10	sw.	N. J. Experiment Station.
New Milford††	Bergen	12	27							3.19	-0.26	0.92	16		11					Hackensack Water Co.
Newton	Sussex	769	62	18.8	-7.8	52	1	7	25	3.05	-0.27	0.97	16	33.4	11	17	4	10	uw.	Irving J. Kern.
Orange††	Essex	140	5							3.33		1.00	1	14.6	7					County Engineer.
Paterson	Passaic	95	74	23.4	-6.8	54	2	3	25	2.64	-1.09	1.00	1	14.6	7	16	7	8	w.	J. W. Cook.
Pemberton	Burlington	55	16	27.5	-7.0	58	1	1	25	2.35	-1.09	0.71	1	7.3	13	17	4	10	w.	Charles A. Dochler.
Phillipsburg	Warren	182	562	22.2	-6.6	45	1	3	25	3.91	+0.38	1.59	1	22.0	9	18	4	9		Town Engineer.
Plainfield	Union	120	57	24.4	-5.9	55	1	1	25	2.51	-1.33	0.88	1	13.8	8	12	9	10	nw.	S. K. Pearson.
Plainsboro	Middlesex	110	4							1.79		0.84	15		7					Walker-Gordon Lab.
Pleasantville††	Atlantic	8	47	28.0	-5.6	55	1	3	25	3.34	-0.02	0.92	16		11	14	5	12	nw.	N. J. Water Policy Comm.
Rahway	Union	20	6							2.33		0.54	1	12.9	9	4	9	18	nw.	Louis Fontenelli.
Ridgefield	Bergen	80	28	22.8	-6.7	55	1	1	25	3.68	+0.15	0.91	16	19.4	10	14	9	8	nw.	George P. Kirsten.
Runyon††	Middlesex	18	22	21.5	-9.2	54	1	4	18	2.93	-0.67	0.90	31-1		6	15	10	6	w.	N. J. Water Policy Comm.
Rutherford	Bergen	51	1							3.17		0.94	15-16	16.3	7	10	5	16	nw.	Harold Scott.
Sandy Hook	Monmouth	15	47	25.0	-6.3	52	1	2	25	2.59	-1.37	1.14	16		6					U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	62	22.0	-7.5	57	1	2	3†	2.73	-0.86	1.13	16-17		5	13	9	9	nw.	Joseph Starkman.
Sussex	Sussex	450	50	21.0	-6.2	54	1	8	20	4.68	+1.40	1.50	1†	30.2	8	7	7	17	w.	Marshall Hunt.
Toms River	Ocean	33	24							3.16	-0.55	1.00	12-13	4.6	9					Robt. F. Snyder.
Trenton	Mercer	56	73	25.0	-5.5	58	1	0	25	2.28	-1.03	0.77	15-16	8.0	10	12	7	12	nw.	U. S. Weather Bureau.
Trenton No. 2	do.	105	15	25.4		57	1	0	25	3.12	-0.71	1.16	16	13.4	8					Edward H. Ristow.
Tuckerton	Ocean	23	52	29.4	-4.6	55	1	2	25	2.82	-0.77	0.83	7	1.0	11	15	5	11	nw.	John H. Brown.
Vineland	Cumberland	110	65							2.13	-1.74	0.60	8		8	13	7	11	nw.	Robert Jones.
Westfield	Union	145	6							3.10		1.00	16	15.5	9	17	4	10	n.	Town Engineer.
Woodcliff Lake††	Bergen	103	27							3.18	-0.36	0.94	16		7					Hackensack Water Co.
Woodstown	Salem	16	10												10	14	7		nw.	Geo. S. Keen.
New York, N. Y.		10	75	25.4	-5.5	55	1	0	25	3.25	-0.41	1.13	16	13.2	8	12	11	8	nw.	U. S. Weather Bureau.
Philadelphia, Pa.		10	75	24.8	-6.3	58	1	2	25	2.86	-0.44	1.17	15-16	11.7	10	10	7	14	nw.	U. S. Weather Bureau.
For the State				24.4	-6.5	60	1	-10	26	3.04	-0.61	2.81	16-17	13.0	9	13	7	11	nw.	

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for January 1945

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast	.25			T.			.74	.10	T.			.19	.54	.15	T.	.74						.12	T.					T.	T.			2.83	
Barneget City ⁴	do.	.18						.90	.12				T.	.44	.16	.05	.66						.10	T.	T.								2.61	
Relleplain	Tuckahoe																																	
Belmar ²	Coast	.63						.15	.03				.09	.17	.33		1.23						.10	T.	T.					.05			2.78	
Belvidere	Delaware	1.60			T.			.36					T.	.02	.22		1.62						.08	T.	T.					.35			4.25	
Berlin	Mullica	.60						.20	.70				*	*	.40		.60													.05			2.65	
Boonton ³	Passaic	.20	1.40					.05	.40				T.	.02	.16		.40	.47												.54			3.72	
Bridgeton	Delaware	.33						.40	.20				.04	.33	.24		.92						.14		T.	T.							3.72	
Brooklawn	do.	.78	T.					.45						.28		.95	T.						.13	T.									2.50	
Burlington	do.	.07						.30	.04	.02			1.02	.02	.25		.25	T.			.12	.02	.15							.50			2.76	
Cane Brook ³	Passaic	.22	.74					.20	.30				.02	.11	.29	.56	.66							.09						.43		.02	3.64	
Cape May ²	Coast	.24						.75	.15	T.		T.	.28	.46	.07	.04	.51						.13	T.	T.			T.					2.63	
Charlotteburg	Passaic	1.33	.14		T.			.54	.04			T.	T.	.26	.07	.98	.25						.13	.02	.05		T.		T.	.74		.10	4.65	
Chatham ³	do.	.24	.75					T.	.41					.01	.06	.31	.28	.51						.09		.03			.50			.07	3.26	
Chatsworth	Coast	.51						.65							.64		.56	T.					.09	T.									2.45	
Clayton	Delaware	.48						.12	.06					.08	.12	.12	.68						.05	T.									1.71	
Clinton	Raritan	1.15	.02					.52	.02				.02		.15	T.	.82						.10		.02					.47			3.33	
Culvers Lake	do.	1.50	T.		.04			.56	.09						.31	T.	1.12	T.					T.			.02				.60		.04	4.22	
Dover	Passaic	1.44						.57							.55		.75						.15							.10			3.86	
Elizabeth	Coast	.95	T.					1.10	.02				T.	.02	.71	.05	.48	2.33					.11	T.	T.					.50		T.	6.27	
Flemington	Raritan	1.45						.28	.18			T.	.03	.30	T.	.80							.06	.02	T.					.37		.02	3.51	
Fort Dix, A.A.B. ²	Delaware	.57				T.		.37	.04	T.			.05	.08	.23	T.	.77						.09		.01					.09			2.06	
Freehold	Raritan	.35						.46	T.			T.	.03	.05	.48		.78	T.					.16										3.65	
Hammonton	Mullica	.39						.70	T.			T.	.13	.16		.24	T.						.12										1.74	
Hightstown	Raritan	.73	T.					.35	T.	T.		.02	.08	.22	T.		.77						.08	T.		.01						T.	2.39	
Indian Mills	Mullica	.51	T.					.56	.07	T.		.06	.12	.44		.83	T.						.11	T.	T.					.13		T.	2.70	
Jersey City ²	Coast	.36						.21				T.	.02	.15	T.	.62	T.						.12	T.						.54	.02		2.04	
Lakewood	Metedeconk	.67						.60	T.			.10	.14	.60		.60	.10						.12	T.	T.					.04			2.97	
Lambertville	Delaware	1.20						.56	T.			T.	.06	.30		1.20	T.					T.	T.							.37			3.69	
Layton	do.	.65	.03		.06			.35	.06			T.		.16	.04	1.50	.09					.02	T.		.03					.34			3.33	
Little Falls ³	Passaic	.50	.56					.30	.19	T.			.01	.10	.28	.49	.60							.07	T.					.50			3.60	
Long Branch ²	Coast	.51						.65	.02	T.			.03	.15	.80		1.37	T.				.16	T.	T.					.07	T.	T.		3.76	
Long Valley ³	Raritan		1.37					.50					.10	.10	.40		.90						.10								.40		3.87	
Marlton	Delaware	.62						.59	.05			.04	.04	.32		.74							.08		T.					.02			2.50	
Mays Landing	Gt. Egg Harbor	.02	.27					.44	.20	.06			.40	.08	.12		.57						.12							.01			2.29	
Millville ²	Maurice	.28						.69	.07			.08	.48		.02	.64							.15										2.41	
Moorestown ³	Delaware	.48	.18					.49	.11	.05			.04	.36	.08	.69	.41						.13	T.		T.			T.	.09		T.	3.11	
Morris Plains	Passaic				T.			.45	T.			T.	.03	.25	T.	.56	.14						.08	T.						.48		T.	1.99	
Newark ¹	Coast	.60						.52	T.	T.		T.	.06	.26	T.	1.02	T.						.07	.01	.02					.37	.01		2.94	
New Brunswick	Raritan	.79	T.					.38	T.			T.	.02	.25	T.	.70	.10						.09	T.	T.					.29			2.62	
New Milford ²	Hackensack	.85						.48						.34		.92							.08		.02					.50			3.19	
Newton	Delaware		.02		.02			.60	.02			.02	.40	.30	T.	.97	T.						.02		.08					.60		T.	3.05	
Orange ²	Passaic		.93					*	.47				*	.33	*	1.03							T.	.08						.48		.01	3.35	
Paterson ²	do.	1.00						.28	T.			T.	.05	.35	T.	.55							.07		T.				T.	.34			2.64	
Pemberton	Delaware	.68	.03					.40	.06	.02		.01	.01	.28		.68	.02						.10	.01	T.					.05			2.35	
Phillipsburg	do.	1.58			T.			.24	T.			.06	T.	.28	.09	.95							.09	T.	T.					T.	.09	.12		3.91
Plainfield	Raritan	.88						.49	T.	T.		.01	T.	.30	T.	.51	T.						.03	.01	T.					.28		T.	2.51	
Plainsboro	do.	.40						.25				T.		.24	.53	.84	T.						.04		T.					.02			1.79	
Pleasantville ³	Coast	.10	.40					.30	.52	.14			.24	.53	.04	.92	T.						.14	.01									3.34	
Rahway ²	Rahway	.54						.40	.02	T.			.05	.15	*	.75							.10	T.						.32	T.		2.33	
Ridgefield	Hackensack	.72						.60	.25	T.		T.	T.	.30	T.	.91	.38						.12		.01					.38	.01		3.68	
Runyon	Coast	.90						.36						.47		.86							.06							.28			2.93	
Rutherford	Passaic	.78	T.					.50	T.	T.		T.	T.	.37	T.	.94	.06						.07	T.	T.					T.	.45	T.	T.	3.17
Sandy Hook ²	Coast	.47						.41	T.	T.		T.	.07	.34		1.14	T.						T.	T.	T.					T.	.16	T.	T.	2.59
Somerville	Raritan	.84						.50	T.					.23		1.13	T.							T.	T.	T.					.03			2.73
Sussex	Hudson	1.50	T.		.01			.52	.10			T.		.35	T.	1.50							T.	T.		.05	T.				.65			4.68
Toms River	Coast	.55						.10	.30			.20	1.00	.05		.75							.20			.01							3.16	
Trenton ¹	Delaware	.47						.44	.02	T.		.01	.16	.17	.03	.74	T.						.10	T.						T.	.14			2.28
Trenton No. 2 ²	do.	.68						.53	T.			.02	.17	.29	T.	1.16	T.						.13		T.					T.	.14	T.		3.12
Tuckerton	Coast	.42	.04					.83	.04	.07			.28	.36	.06	.50	.10							.12	T.								2.82	
Vineland	Maurice	.57						.40	.60	T.			.25	.09		.10	T.					.12	T.										2.13	
Westfield ³	Rahway	.30	.55						.47					.22	.22	.58	.42							.10							.34			3.10
Woodcliff Lake ³	Hackensack	.82						.47						.38		.94							.08		.03						.46			3.18
Woodstown	Delaware																																	
New York, N. Y. ¹	Coast	.31						.69	T.	T.		T.	T.	.10	.39	T.	1.13	T.					.14	T.	T.					T.	.48	.01		3.25
Phila., Pa. ¹ (Arpt)	Delaware	.80						.42	.05	T.		T.	.03	.17	.03	.10	1.07						.15	T.	T.						.04	T.		2.86

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight.

³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. ⁴ Precipitation is from 1:30 a. m. to 1:30 a. m. [†] Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

§§ Incomplete.

ERRATA FOR 1944

January: Trenton mean temp 33.9°, dept +3.4°. March: Trenton mean temp 37.9°, dept -1.2°; Lambertville total snowfall 7.6. April: Belmar total precip 6.87; Hightstown same 5.86, dept +1.97; Indian Mills mean temp 49.2°, dept -1.3°; Newark mean max temp 57.4°, mean monthly 48.2°, dept -1.8°; Ridgefield mean temp 47.1°, dept -1.3°; Tuckerton same 49.4°, dept 0; Philadelphia same 49.4°, -1.2°; Westfield days with .01, 13. May: Canoe Brook min temp for month 32° on 19th; Dover total precip 1.91, dept -1.72; Westfield same 1.46; Jersey City clear days 14, pt cldy 9, cloudy 8; Woodstown clear days 15, pt cldy 10, cloudy 6; Vineland days with .01, 5. June: Canoe Brook clear days 13, pt cldy 10; Hightstown prev wind NW. July: Hammonton gt 24-hour precip .71 on 13-14; Hightstown mean max temp 89.1°, monthly 76.0°, dept +1.8°; Jersey City mean temp dept -0.1°; Ridgefield same +2.9°; Long Valley total precip 1.06, dept -4.25; Plainfield

gt 24-hour precip .72 ou 20-21st; Sandy Hook mean min temp 68.3°, mean monthly 76.6°, dept +3.1°. August: Boonton precip dept -1.59; Ridgefield mean min temp 62.0°, monthly 75.2°, dept +3.4°; Tuckerton mean temp dept +1.1°. September: Charlotteburg mean min temp 51.4°, monthly 64.4°, dept +1.7°, clear days 13, pt cldy 12; Flemington mean monthly temp 68.8°, dept +2.1°; Paterson mean max temp 77.6°, mean monthly 66.2°, dept -0.2°; Pemberton mean max temp 79.8°, monthly 69.2°, dept +1.5°; Sept Pleasantville mean max temp 76.3°, monthly 67.2°, dept +1.3°. October: Moorestown clear days 19, pt cldy 3. November: Belmar gt 24-hour precip 2.24 on 27th; Dover total precip 6.87, dept +3.32; Lambertville same 6.17, dept +3.17; Little Falls same 6.62, dept +3.22; New Brunswick temp dept +0.6°. December: Charlotteburg max temp on 31st 37°, mean max 37.1°, mean monthly 27.8°, dept -2.8°; Sussex mean monthly temp 29.6°, dept -0.6°, total snowfall 12.5.

Daily Temperatures for January 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*	Maximum... 53	31	39	48	37	34	48	34	39	23	30	39	39	36	38	39	36	34	40	35	39	41	38	36	16	22	32	35	41	38	31	36.2	
	Minimum... 31	17	17	37	26	20	28	28	17	14	17	24	33	25	25	28	23	15	22	28	23	33	30	12	4	10	15	25	27	21	15	22.3	
Baruegat City†	Maximum... 53	28	38	44	34	33	48	35	37	22	28	40	38	37	36	38	35	29	35	35	36	39	37	36	14	20	29	36	41	36	27	34.6	
	Minimum... 28	15	15	28	22	19	27	26	13	11	17	22	34	21	24	25	20	14	23	24	21	25	28	10	2	7	15	20	25	21	14	19.9	
Belleplaiu	Maximum... 48	39	29	40	37	23	20	39	35	21	29	33	36	34	28	30	35	31	33	35	31	29	35	31	13	20	30	31	35	30	25	31.1	
	Minimum... 33	14	10	20	16	11	11	19	17	6	10	7	31	18	9	20	21	4	13	5	7	14	26	15	-2	2	10	7	25	11	8	13.5	
Boonton/	Maximum... 55	33	30	41	24	22	26	41	25	19	27	35	39	29	32	28	31	30	40	39	37	34	37	33	14	18	29	36	34	21	21	31.0	
	Minimum... 29	15	10	12	17	12	10	13	24	5	6	5	17	25	4	5	19	2	4	6	6	8	13	21	-8	-2	3	14	12	13	10	10.8	
Bridgeton	Maximum... 55	36	39	45	37	30	35	33	35	31	28	43	39	36	33	34	33	31	35	35	33	38	36	36	26	21	30	39	36	36	31	35.0	
	Minimum... 36	19	12	27	24	20	23	24	29	13	14	14	34	25	24	28	33	11	16	25	19	23	31	26	13	10	14	22	28	18	13	21.2	
Burlington	Maximum... 60	58	38	44	38	27	25	42	35	27	27	38	36	85	30	30	32	33	37	36	32	36	33	21	19	28	32	35	33	31	34.2		
	Minimum... 34	23	21	30	20	16	19	21	26	10	10	10	34	23	20	25	33	11	21	19	28	19	30	20	0	5	12	16	29	19	13	19.6	
Canoe Brook/	Maximum... 52	24	33	45	28	23	25	44	37	21	28	40	37	22	33	28	33	31	38	40	36	34	37	32	15	17	30	42	34	31	22	32.0	
	Minimum... 27	14	8	12	16	12	12	15	19	5	1	-2	22	20	-2	0	18	-5	-5	-8	-8	-1	12	22	-2	-1	3	5	17	12	8	7.9	
Cape May*	Maximum... 50	30	40	44	40	35	48	34	35	21	28	39	38	34	38	38	32	28	35	39	33	40	37	37	18	22	29	36	36	35	32	34.9	
	Minimum... 30	19	18	36	26	22	28	28	19	16	18	23	33	26	25	28	26	19	24	26	20	31	30	16	8	14	19	26	28	23	17	23.3	
Charlotteburg	Maximum... 53	48	26	43	43	25	20	42	41	24	24	32	39	34	32	32	29	29	34	35	37	35	34	32	25	15	25	31	33	30	30	32.6	
	Minimum... 32	11	6	15	14	6	11	17	23	3	-2	-5	32	15	-1	18	11	6	16	9	2	8	17	13	-5	-2	6	16	22	15	6	10.8	
Chatsworth	Maximum... 59	37	39	44	37	29	34	33	35	32	27	43	42	35	32	33	31	30	33	36	35	38	39	34	27	18	28	35	42	37	33	35.1	
	Minimum... 37	18	5	23	20	15	17	24	28	8	11	6	34	24	27	26	20	6	12	15	8	15	31	25	0	5	11	12	16	16	12	17.0	
Clayton	Maximum... 42	38	39	43	44	36	34	33	34	33	29	42	39	38	34	33	34	32	35	35	36	37	37	34	32	3	30	26	30	37	35	35	35.4
	Minimum... 28	14	11	25	22	12	20	23	27	10	13	12	34	26	21	21	21	9	14	23	11	18	30	26	1	6	12	19	23	17	12	18.1	
Dover	Maximum... 57	41	33	45	36	26	23	41	39	25	31	37	40	35	35	30	29	35	41	40	38	36	40	35	19	24	33	36	36	34	30	34.8	
	Minimum... 34	17	10	21	20	13	11	22	25	4	9	9	32	22	8	23	21	2	14	9	11	14	28	15	-1	10	11	28	18	10	15.5		
Flemington	Maximum... 52	39	32	47	43	31	27	39	37	27	32	36	38	36	31	30	33	38	41	38	37	32	38	34	24	22	32	34	36	37	31	35.0	
	Minimum... 33	15	12	22	18	14	16	21	26	7	7	6	32	23	8	25	21	8	17	5	2	13	30	21	-2	0	10	9	26	16	9	15.2	
Fort Dix, A. A. B.*	Maximum... 58	26	38	44	36	24	31	35	35	19	27	38	37	30	31	32	32	27	33	35	34	35	36	33	12	19	28	32	36	31	26	31.9	
	Minimum... 25	13	11	30	20	15	23	23	12	9	15	14	30	22	16	23	18	10	16	16	14	16	26	5	0	4	11	17	24	17	12	16.4	
Freehold	Maximum... 58	36	36	45	38	30	38	34	35	25	26	41	36	33	30	30	32	28	38	36	38	35	36	34	22	17	28	33	36	34	29	33.5	
	Minimum... 34	15	9	27	17	12	18	23	23	5	10	10	31	22	11	21	18	4	13	10	8	19	29	20	-4	-1	8	14	26	15	8	15.3	
Hammononton	Maximum... 58	34	31	43	35	30	28	32	36	28	30	38	37	36	32	32	32	26	35	38	33	40	34	35	12	19	31	34	35	31	26	32.9	
	Minimum... 36	17	9	26	20	16	22	23	15	8	11	21	33	25	26	24	21	9	12	13	18	12	31	13	0	5	10	17	26	17	10	17.6	
Hightstowu	Maximum... 58	39	36	43	37	25	26	35	35	27	27	39	36	34	30	31	34	28	35	36	33	33	36	33	16	18	29	34	34	31	29	32.8	
	Minimum... 34	17	12	28	19	14	18	23	26	7	10	12	33	22	9	24	19	3	15	6	5	18	29	15	-3	1	10	13	27	16	9	15.8	
Iudiau Mills	Maximum... 59	37	39	44	37	29	34	33	36	27	28	41	38	33	32	33	32	29	35	36	36	37	37	35	20	19	29	37	37	34	30	34.3	
	Minimum... 36	18	7	28	21	17	20	23	27	9	10	8	33	23	19	27	21	10	12	16	8	17	30	20	1	6	12	14	30	17	13	17.8	
Jersey City*	Maximum... 52	36	32	40	32	21	22	38	35	19	26	36	36	24	28	28	28	26	35	34	32	32	36	30	14	18	28	30	32	30	24	30.1	
	Minimum... 36	14	12	31	21	12	16	22	10	7	13	18	24	18	14	21	12	9	18	17	18	24	26	4	0	4	10	19	23	20	14	16.4	
Lakewood	Maximum... 57	42	37	46	41	25	34	33	35	29	26	41	38	34	30	32	32	28	35	35	36	36	34	23	19	30	35	40	34	30	34.3		
	Minimum... 37	20	11	31	22	18	18	25	29	8	11	11	34	23	16	25	22	8	14	15	13	20	31	23	0	4	12	17	32	22	12	18.8	
Lambertville	Maximum... 55	38	35	47	38	28	27	37	36	24	29	37	37	35	32	30	33	30	35	39	35	31	37	33	19	21	31	31	32	34	29	33.4	
	Minimum... 32	16	11	22	17	15	17	21	22	8	10	9	31	22	10	25	21	8	17	9	5	17	28	17	-2	2	10	11	27	15	9	15.5	
Layton	Maximum... 49	45	28	40	38	22	20	38	39	20	25	31	36	31	27	30	51	28	32	35	34	23	35	30	17	15	26	30	30	31	28	31.1	
	Minimum... 31	11	-3	11	4	-2	7	16	17	-2	-7	-6	16	15	0	17	17	5	12	-7	-3	5	21	14	-6	-3	5	2	20	8	5	7.1	
Little Falls/	Maximum... 56	24	32	43	28	27	44	37	22	29	36	38	25	35	28	35	35	40	46	40	35	38	33	18	22	31	36	34	32	33	32.2		
	Minimum... 32	16	11	15	19	11	11	17	25	7	8	7	25	21	7	9	19	4	11	4	4	14	16	23	0	2	6	10	27	18	11	13.2	
Loug Brauch*	Maximum... 56	29	38	44	37	26	32	34	36	20	27	43	37	31	32	33	32	27	34	35	35	36	34	13	19	30	35	41	33	25	32.9		
	Minimum... 29	13	12	31	20	16	25	24	10	7	13	15	32	22	16	23	20	9	16	16	15	22	27	5	-1	3	10	16	17	19	12	16.9	
Long Valley/	Maximum... 50	22	30	41	27	23	26	45	37	23	29	35	36	25	34	27	37	36	35	34	36	33	40	35	16	20	30	34	35	30	22	31.8	
	Minimum... 26	9	4	12	13	6	10	11	23	2	1	-3	20	17	-2	20	15	6	15	13	-1	7	23	18	-6	-10	5	9	21	10	6	9.7	
Moorestowu*	Maximum... 58	27	38	45	38	25	27	34	34	20	26	37	37	31	31	31	3																

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. L. FEBRUARY 1945. No. 2

GENERAL SUMMARY.

The first week of February was somewhat colder than normal. There was also a cold period from the 18th-21st. The remainder of the month was decidedly warmer than normal. Temperature range was from a low of -8° on the 6th at Layton to 60° at several stations on the 27th. This was the only month of the current winter, December-February, that averaged warmer than normal, the other two being decidedly colder. The winter averaged the coldest of any during the past ten years, though readings were not as low as in many previous seasons; the lowest recorded was -14° on December 22d at Layton. It was the first winter in thirty years, however, that no reading above 60° was registered anywhere in the State in any month.

Precipitation and snowfall for February were both slightly less than normal. Snowstorms of consequence occurred on the 8th, 17th, and 20th. Northern stations generally had their heaviest amounts on the 8th, with depth of 6 to 10 inches, but southern stations had their main snowfall on the 17th. Snow cover was much more continuous this season than in most previous years, measurable amounts lasting from about January 7th to February 22d in northern counties. Light falls of sleet were numerous in February, but road conditions were much better than in January. There were strong winds on the 1st, 13th, and 24th, but no damage of importance from that source. Sunshine was near normal.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 42 stations, was 32.2° , which was 1.6° above normal. The highest temperature was 60° at 4 stations on the 27th, and the lowest, -8° , at Layton on the 6th. The highest monthly average temperature was 35.4° at Atlantic City and Tuckerton, and the lowest, 26.9° at Canoe Brook.

The temperature departure from the normal for the year 1945 to date, for the State, is -2.4° .

PRECIPITATION.

The average precipitation of the State, as computed from observations of 62 stations, was 3.16 inches, which was 0.31 inch below normal. The average total snowfall at 30 selected stations was 7.9 inches, which was 0.9 inch below normal. The greatest monthly precipitation was 4.62 inches at Elizabeth, and the least, 2.16 inches at Cape May. The greatest amount of precipitation in any 24 consecutive hours was 1.25 inches at Elizabeth on the 26th.

The average for the Highlands was 3.29 inches; for the Red Sandstone Plain, 2.90 inches; for the Southern Interior, 3.26 inches; and for the Sea Coast, 2.95 inches.

The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, $+0.82$ inch; Red Sandstone Plain, -0.89 inch; Southern Interior, -1.18 inches; Sea Coast, -1.47 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 8, 14, 15, 16, 21, 22, 23, 26.

THUNDERSTORMS: None.

SLEET: 4, 5, 7, 8, 9, 13, 14, 17, 18, 20, 21, 22, 23, 26, 27, 28.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind			Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.	
Atlantic City.....	30.63	25	29.62	8	16.3	47	ne.	13	79	65	72	57
Long Branch.....	30.60	25	29.61	8	13.7	36	w.	24	75	61	67	57
Trenton.....	30.61	25	29.65	8	9.3	29	n.w.	1	74	58	65	55

COMPARATIVE DATA FOR FEBRUARY.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	23.9	54	-2	3.93	..	..	..	..	..
1886.....	28.9	64	-10	5.42	..	..	..	..	..
1887.....	33.9	69	-6	5.24	..	13	..	..	..
1888.....	30.6	60	-5	3.53	..	8	..	..	..
1889.....	27.7	53	-3	2.49	..	8	..	..	..
1890.....	33.9	76	14	4.17	..	10	..	..	..
1891.....	33.0	71	1	5.11	..	14	6	9	13
1892.....	33.6	58	7	1.63	..	7	7	9	13
1893.....	30.1	63	-1	5.73	..	11	7	8	13
1894.....	29.7	62	-11	4.42	..	11	9	8	11
1895.....	23.6	57	-12	1.28	11.6	5	13	9	6
1896.....	32.1	62	-12	6.77	6.7	12	9	9	11
1897.....	32.5	59	-6	3.61	8.0	8	8	10	10
1898.....	32.7	65	-15	3.48	2.0	9	12	7	9
1899.....	25.8	60	-17	6.06	31.3	15	10	6	12
1900.....	31.0	69	-6	5.30	9.6	10	9	9	10
1901.....	25.4	52	-6	0.94	4.9	4	15	9	4
1902.....	27.4	62	-7	6.24	16.5	9	12	6	10
1903.....	33.7	70	-16	4.87	6.7	10	12	8	8
1904.....	24.8	65	-16	2.45	5.6	8	13	8	8
1905.....	23.4	53	-18	2.53	7.3	7	14	7	7
1906.....	30.9	64	-12	2.58	5.4	7	14	7	7
1907.....	23.6	55	-22	2.67	20.8	8	14	7	7
1908.....	28.1	65	-17	4.79	11.9	9	10	10	9
1909.....	37.8	72	-2	4.96	2.3	12	6	10	12
1910.....	30.5	69	-11	3.08	6.2	10	10	9	9
1911.....	30.9	67	-12	2.78	11.2	11	8	7	13
1912.....	27.7	61	-14	2.49	2.8	5	11	12	6
1913.....	30.6	70	-5	2.49	3.5	7	16	6	6
1914.....	25.9	67	-12	2.85	15.1	9	12	7	9
1915.....	35.7	75	-7	5.37	3.5	8	11	6	11
1916.....	28.1	63	-18	4.21	11.4	11	10	6	13
1917.....	28.1	62	-19	1.95	8.3	11	10	9	9
1918.....	29.0	67	-23	2.08	2.6	7	12	8	8
1919.....	33.6	65	4	3.39	1.2	10	15	4	9
1920.....	27.9	54	-17	4.20	20.0	11	11	8	10
1921.....	34.0	71	-5	3.81	13.6	10	10	8	10
1922.....	33.6	73	-10	2.94	8.5	10	10	8	10
1923.....	26.1	56	-12	2.58	13.8	12	10	8	10
1924.....	28.9	62	-3	4.10	11.9	9	13	5	11
1925.....	37.3	72	-1	2.23	0.7	7	12	6	10
1926.....	29.4	57	-11	4.54	21.2	11	9	5	14
1927.....	36.1	66	4	3.12	5.1	11	10	8	10
1928.....	32.1	63	-6	4.05	4.4	10	12	7	10
1929.....	31.6	63	-9	4.06	9.2	8	13	7	8
1930.....	35.6	80	-10	2.80	4.2	9	13	7	8
1931.....	33.3	62	-9	2.18	3.0	8	14	5	9
1932.....	35.9	69	4	2.16	2.2	9	11	6	12
1933.....	33.5	67	-12	3.33	10.4	10	12	6	10
1934.....	18.6	54	-26	2.77	22.7	8	15	6	7
1935.....	30.1	64	-31	2.80	6.8	9	12	7	9
1936.....	24.4	66	-17	3.10	9.6	10	13	5	11
1937.....	34.0	65	4	2.30	3.8	8	11	7	10
1938.....	35.5	70	6	2.31	1.1	10	9	6	13
1939.....	36.3	74	1	5.55	2.0	11	11	6	11
1940.....	31.9	65	-1	3.03	12.2	11	12	6	11
1941.....	29.4	58	-5	2.47	8.8	6	16	5	7
1942.....	29.7	63	-5	2.69	1.2	6	14	6	8
1943.....	32.9	71	-25	2.01	3.8	8	14	6	8
1944.....	32.3	65	-7	2.35	7.0	9	10	7	12
1945.....	32.2	60	-8	3.16	7.9	11	10	7	11
Period.....	30.6	80	-31	3.47	8.8	9	11	7	10

Climatological Data for February 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy			
Atlantic City.....	Atlantic.....	8	72	35.4	+1.8	57	16	17	19	3.64	+0.28	1.13	13-14	2.9	12	7	5	16	w.	U. S. Weather Bureau.	
Baruegat City.....	Ocean.....	36	6	33.5		54	16	14	19	3.16		0.88	17		9					U. S. Coast Guard.	
Belleplain.....	Cape May.....	49	51												13					Mrs. Edward C. Hoffman.	
Belmar.....	Monmouth.....	19	4							3.04		0.52	26		11	16	4	8		City Water Dept.	
Belvidere.....	Warren.....	289	53	30.6	+2.4	51	16	1	4	3.89	+0.39	0.92	22†	8.0	11					Miss C. S. Hixson.	
Berlin.....	Camden.....	70	4												10	12	4	12	nw.	Samuel H. McCulley.	
Boonton.....	Morris.....	280	55	28.6	+0.6	53	26	3	4†	2.73	-0.56	0.92	26-27		16	8			nw.	John Kline.	
Bridgeton.....	Cumberland.....	30	62	35.1	+1.1	57	27	12	4†	2.38	-1.10	0.49	22	3.5	10	13	4	11	nw.	Bennett K. Matlack.	
Brooklawn.....	Camden.....	30	4							3.21		0.85	21-22	6.8	8					C. D. Scott.	
Burlington.....	Burlington.....	12	59	34.1	+0.9	58	27	6	20	3.69	+0.43	0.81	13-14		12	9	6	13	w.	Public Service E. & G. Co.	
Canoe Brook††	Essex.....	180	15	26.9	-1.7	51	27	-5	4	3.30	+0.52	0.93	26-27		9	13	7	8	w.	N. J. Water Policy Comm.	
Cape May.....	Cape May.....	17	57	34.8	+0.7	53	16†	18	1†	2.16	-1.02	0.42	22	2.8	10	7	3	18	nw.	Naval Air Station.	
Charlotteburg††	Passaic.....	760	53	30.6	+3.6	51	27	4	7	3.95	+0.31	0.88	21-22	12.8	12	8	4	16	nw.	Newark Water Dept.	
Chatham.....	Morris.....	185	41							3.39	-0.14	1.03	26-27	6.9	9	14	7	7		Edward P. Molitor.	
Chatsworth.....	Burlington.....	90	5	33.4		56	22†	2	19	3.31					10	8	12	8	w.	Alfred L. Stevenson.	
Clayton.....	Gloucester.....	120	32	34.6	+3.0	60	27	3	20	3.67	+0.29	0.78	21-22	8.2	10	10	6	12	n.	Worthy Hitt.	
Clinton.....	Hunterdon.....	300	2							3.03		0.77	26	7.0	12	8	5	15	nw.	L. W. Klockner.	
Culvers Lake††	Sussex.....	760	44							2.93	+0.13	0.95	22	11.4	12					L. S. Dupue.	
Dover.....	Morris.....	600	61							3.23	-0.51			8.0	10		10	13		William C. Harris.	
Elizabeth.....	Union.....	34	66	32.8	+1.6	58	27	8	4	4.62	+0.80	1.25	26	5.8	11	13	6	9	nw.	Union County Park Comm.	
Flemington, 2 mi. NE..	Hunterdon.....	140	59	32.8	+2.5	55	27	7	4	2.84	-0.37	0.84	26	6.5	13	13	7	8	nw.	Hiram E. Deats.	
Fort Dix, A. A. B..	Burlington.....	120	1	32.5		59	27	4	20	3.23		0.54	22		12	6	5	17	w.	A. A. B. Weather Station.	
Freehold.....	Monmouth.....	194	51	32.0	+0.9	59	27	7	4	2.98	-0.81	0.65	26	6.7	13	12	9	7	w.	Moreau Plant Co.	
Hammonton.....	Atlantic.....	95	59	33.0	-1.5	59	27	2	20	3.53	+0.23	0.68	26	5.0	11	9	9	10	n.	J. G. Wilson.	
Hightstown.....	Mercer.....	110	52	32.0	+1.0	59	27	5	4	2.67	-0.60	0.78	21-22	6.1	12	8	14	6	nw.	James R. Pickering	
Indian Mills††, 2 mi. W	Burlington.....	100	56	33.9	+1.2	60	27	-1	20	3.57	+0.20	0.67	21-22	8.6	11	9	12	7	w.	Edward Entwistle.	
Jersey City.....	Hudson.....	81	47	31.6	-0.1	52	16	12	1	2.56	-0.95	0.79	21-22		13	12	8	8	nw.	J. C. Water Dept.	
Lakewood.....	Ocean.....	54	41	33.9	+2.4	59	27	8	20	3.70	+0.20	0.65	21-22	9.0	12	10	9	9	w.	R. W. Holman.	
Lambertville.....	Hunterdon.....	75	58	32.6	+2.0	57	27	9	4†	2.11	-1.12	0.72	21-22		8	6	9	13	sw	Mabel Wollaston.	
Layton††, 3 miles NW.	Sussex.....	480	44	27.8	+2.5	48	27	-8	6	3.21	+0.51	0.93	8	17.7	13	8	4	16	nw	A. M. Dupue.	
Little Falls.....	Passaic.....	157	42	31.0	+0.7	56	26	8	20	3.54	+0.15	0.93	26-27	12.7	9	10	10	8	nw.	Passaic Valley Water Co.	
Long Branch.....	Monmouth.....	34	37	33.0	+1.7	60	27	11	4	3.10	-0.49	0.63	13	5.0	14	8	10	10	w.	Storm Warn. Display Sta.	
Long Valley.....	Morris.....	660	15	28.4	+0.9	52	16†	1	4	2.71	-0.03	0.98	26	8.5	6	12	12	4	sw.	Arthur Barkman.	
Marlton, 1 mile W..	Burlington.....	90	4							3.44		0.88	21-22	8.6	11	12	9	7	sw.	David Griscom.	
Mays Landing.....	Atlantic.....	50	1							2.81		0.69	22-23	4.5	11	13	4	11	nw.	Elmer Earle.	
Millville.....	Cumberland.....	60	5							2.88		0.72	13		11	10	12	6		Paul Ritchie.	
Moorestown.....	Burlington.....	62	82	33.0	+1.2	59	27	6	20	3.40	+0.11	0.69	13-14	8.4	11	8	4	16	nw.	Japanese Beetle Laboratory	
Morris Plains, 1 mi. W.	Morris.....	500	4							3.29		0.94	21-22	12.6	10	15	3	10		James C. Long.	
Newark.....	Essex.....	10	91	32.9	+3.3	58	27	14	1†	2.96	-0.56	1.06	26-27	7.5	14	5	11	12	nw.	U. S. Weather Bureau.	
New Brunswick.....	Middlesex.....	86	91	32.6	+1.5	59	27	9	4	2.65	-0.76	0.78	21-22	4.9	11	10	8	10	nw.	N. J. Experiment Station.	
New Milford††	Bergen.....	12	27							3.20	+0.26	0.72	26		14					Hackensack Water Co.	
Newton.....	Sussex.....	769	62	28.0	+0.8	49	10	5	4	3.09	-0.10	0.82	21-22	23.0	13	8	8	12	nw.	Irving J. Kern.	
Orange††	Essex.....	140	5							3.42		0.77	22		12					County Engineer.	
Paterson.....	Passaic.....	95	74	31.2	+0.5	55	27	9	4†	2.19	-1.69	0.74	26	9.4	13	9	11	8	w.	J. W. Cook.	
Pemberton.....	Burlington.....	55	16	34.8	+1.2	60	27	4	20	3.34	+0.69	0.69	21-22	7.3	12	12	5	11	w.	Charles A. Doehlert.	
Phillipsburg.....	Warren.....	182	56	30.2	+1.3	51	27	5	4	3.69	+0.30	0.88	26	5.5	14	11	6	11		Town Engineer.	
Plainfield.....	Union.....	120	57	32.0	+2.3	55	27	8	4	3.40	-0.18	1.00	26-27	8.8	12	8	9	11	nw	S. K. Pearson.	
Plainboro.....	Middlesex.....	110	4							2.80		0.82	21-22	4.5	8					Walker-Gordon Lab.	
Pleasantville††	Atlantic.....	8	47	33.4	-0.2	59	16	6	20	3.39	+0.96	1.06	13-14		14	9	3	16	nw.	N. J. Water Policy Comm.	
Rahway.....	Union.....	20	6							2.49		0.70	26	5.0	11	10	8	10	nw.	Louis Fontenelli.	
Ridgefield.....	Bergen.....	80	28	31.4	+1.6	55	27	8	4	3.51	+0.31	0.79	21-22	16.3	13	8	8	12	nw.	George P. Kirsten.	
Runyon††	Middlesex.....	18	22	30.4	-0.4	55	26	-2	4†	3.26	+0.08	0.83	21-22		11	12	10	6	w.	N. J. Water Policy Comm.	
Rutherford.....	Bergen.....	51	1							3.36		0.99	26	11.3	14	4	10	14	nw.	Harold Scott.	
Sandy Hook.....	Monmouth.....	15	47	32.6	+0.5	54	26†	16	1	2.46	-1.29	0.48	26		12					U. S. Coast Guard.	
Somerville, 2 mi. N..	Somerset.....	385	62	31.4	+1.5	56	27	8	4	3.20	-0.23	0.95	21-22		7.5	9	7	12	9	nw.	Joseph Starkman.
Sussex.....	Sussex.....	450	50	30.8	+3.9	54	11†	-4	7	2.90	-0.19	1.15	8	14.0	10	7	7	14	w.	Marshall Hunt.	
Toms River.....	Ocean.....	33	24							3.35	-0.58	0.94	21-22	6.7	10					Robt. F. Snyder.	
Trenton.....	Mercer.....	56	73	34.1	+3.4	59	27	15	1	2.54	-0.73	0.73	21-22	6.6	13	6	7	15	uw.	U. S. Weather Bureau.	
Trenton No. 2.....	.....do.....	105	15	33.6	+1.9	59	27	13	4	3.05	+0.25	0.68	26-27	7.0	12					Edward H. Ristow.
Tuckerton.....	Ocean.....	23	52	35.4	+2.1	55	16	12	4†	2.94	-0.48	0.82	13-14	3.0	10	12	4	12	nw.	John H. Brown.	
Vineland.....	Cumberland.....	110	65							3.66	+0.07	1.00	22		9	12	9	7	uw.	Robert Jones.	
Westfield.....	Union.....	145	6							3.00		1.00	26-27	5.5	9	12	5	11	n.	Town Engineer.	
Woodcliff Lake††	Bergen.....	103	27							3.52	+0.52	0.82	22		14					Hackensack Water Co.	
Woodstown.....	Salem.....	16	10							3.21		0.90	22		7	13	7	8	nw.	Geo. S. Keen.	
New York, N. Y.....		10	75	31.4	+3.1	57	27	15	1	3.01	-0.81	0.86	26-27	7.5	13	7	10	11	nw.	U. S. Weather Bureau.	
Philadelphia, Pa.....		10	75	33.8	+1.3	58	27	13	20	3.35	+0.03	0.81	26-27	7.9	12	7	2	19	nw.	U. S. Weather Bureau.	
For the State.....				32.2	+1.6	60	27	-8	6	3.16	-0.39	1.25	26	7.9	11	10	7	11	nw.		

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

* Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for February 1945

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ¹	Coast				.01				.35					1.12	.02		T.	.27			.04	.20	.44	.38			.24	.41	.16			3.64	
Barnegat City ⁴	do.							T.	.47					.71	.02			.88					.35	.08				.33	.12	.20			3.16
Belleplain	Tuckahoe													.43	.07	T.		.27			.17	.16	.44	.25			.52	.23	.18			3.04	
Belmar ²	Coast			.06	.04			T.	.22					.43	.07	T.		.27				.17	.16	.44	.25			.52	.23	.18			3.04
Belvidere	Delaware				.07				.60	.07				.26	.27		.05					.16	.92				.92	.47	.10			3.89	
Berlin	Mullica																																
Boonton ³	Passaic				.06				.12	.52					.32	T.	.05					.10	.29	.35					.92			2.73	
Bridgeton	Delaware				T.				.13					.02	.10		.38						.11	.49	.31		.33	.29	.22			2.38	
Brooklawn	do.								.26					.64	T.		.55	T.				T.	.85	.05			.63	.15	.08			3.21	
Burlington	do.				.08				.33					.50	.31		.39				.01	.19	.78	.18			.52	.29	.11			3.69	
Canoe Brook ³	Passaic				.05				.11	.62					.44	T.	.02						.12	.64	.37				.93			3.30	
Cape May ²	Coast			T.	T.			T.	.14					.33	T.	.03	.21	T.			T.	.14	.42	.19			.10	.34	.26			2.16	
Charlotteburg	Passaic				.15				.64	.43				.08	.39	.04	.14					.12	.88	.08				.60	.40			3.95	
Chatham ³	do.				.05				.66					.35	T.	.02						.14	.52	.59			T.	1.03	.03			3.39	
Chatsworth	Coast								.43					.	.50			.51										.77	.08			3.31	
Clayton	Delaware								.30					.41	.20		.38					.12	.78	.34			.47	.37	.30			3.67	
Clinton	Raritan				.04				.46	.06				.23	.15		.02					.16	.70	.05			.77	.24	.15			3.03	
Culvers Lake	do.				.05				.50	.10				.14	.20		.09					.13	.95	.05			.56	.32	.04			2.93	
Dover	Passaic			T.			.05		.58					.20		.02										T.	.90	.25	.09			3.23	
Elizabeth	Coast				.30				.52	.30				.62	.35	T.						.22	.95	.08			.95	.30	.03			4.62	
Flemington	Raritan				.05				.29	.08				.09	.22		.03	.02				.17	.67	.06			.84	.26	.06			2.84	
Fort Dix, A.A.B. ²	Delaware				.01				.35	T.				.28	.07	T.	.36				.16	.20	.54	.27			.50	.29	.20			3.23	
Freehold	Raritan				T.	.04			.	.28				.	.51	T.		.15				.20	.	.65	.20			.65	.20	.10			2.98
Hammonton	Mullica				T.				.40					.50	.22		.46				.08	.20	.38	.42			.68	.11	.08			3.53	
Hightstown	Raritan				.05				.48	.02				.07	.16		T.	.10				T.	.19	.78	.07			.51	.19	.05			2.67
Indian Mills	Mullica				.03				.44	T.				.38	.13			.54					.11	.67	.29			.42	.40	.16			3.57
Jersey City ²	Coast				T.	.05			.35	.10				.25	.06	.10					.13	.12	.67	.04			.45	.20	.04			2.56	
Lakewood	Metedeconk				.10				.48	.05				.16	.35			.40					.28	.65	.25			.48	.32	.18			3.70
Lambertville	Delaware								.35	T.				T.	.27			.08				T.	.20	.72			.24	.20	.05			2.11	
Layton	do.				.27				.42	.51				.03	.33	.01	.03				.02	.10	.49	.09			.52	.39	T.			3.21	
Little Falls ³	Passaic				.04				.19	.85				.40	T.	.03						.11	.62	.37				.93				3.54	
Long Branch ¹	Coast				.02	.01			.36	T.				.63	.11	.01	.12				.16	.19	.44	.27			.47	.19	.12			3.10	
Long Valley ³	Raritan								.55					.30									.30	.52		.06		.98				2.71	
Marlton	Delaware				.02				.38					.33	.36		.52					.12	.76	.10			.38	.34	.13			3.44	
Mays Landing	Gt. Egg Harbor				T.	.02			.38					.52	.15		.35				.03		.31	.38			.30	.34	.03			2.81	
Millville ²	Maurice				.03				.19					.72			.36				.04	.16	.33	.30			.28	.34	.13			2.88	
Moorestown ³	Delaware				.07			T.	.07	.26				T.	.69		.14	.30				.10	.45	.50	T.		T.	.62	.20			3.40	
Morris Plains	Passaic				.03				.74	.10				.22	.04	T.						.13	.94	.03	T.			.74	.32			3.29	
Newark ¹	Coast				.07	.01			.43	.02				.22	.04	.02					.20	.16	.58	.10			.97	.10	.04			2.96	
New Brunswick	Raritan				.04				.50	.01				.12	.27		T.	T.				T.	.14	.78	.08			.56	.12	.03			2.65
New Milford ²	Hackensack				.04	.01			.62	.20				.30	.09	.08					.12	.62	.09				.72	.12	.07			3.20	
Newton	Delaware				.10				.36	.18				.09	.15	.03	.04					T.	.11	.82	.03	T.		.78	.35	.03			3.09
Orange ²	Passaic				.04				.50	.25				.05	.35	.01	.01						.12	.77	.13			.48	.71			3.42	
Paterson ²	do.				.04	T.			.37	.09				.18	.02	.03					.10	.05	.33	.02	T.		.74	.15	.07			2.19	
Pemberton	Delaware				.06				.27	.01				.13	.29			.55					.14	.69	.22			.47	.31	.20			3.34
Phillipsburg	do.				.04	.05			.40	.12				.35	.14	.09		.55				.15	.25	.79	.08		.88	.21	.14			3.69	
Plainfield	Raritan				T.	.06			.75	.10				.30	.14	.01						.16	.76	.10			.76	.24	.02			3.40	
Plainsboro	do.								.44	T.					.28							.28	.82	.13			.55	.21	.09			2.80	
Pleasantville ³	Coast			.03		.03			.09	.40				.04	1.06	.40		.40					.07	.15	.66	.03			.45	.18			3.99
Rahway ²	Rahway				T.	.05			.38	.02				.20						.40		.13	.20	.64	.06			.70	.10	.01			2.49
Ridgefield	Hackensack				T.	.04			.47	.43				.40	.06	.04	.02					.15	.79	.08	T.			.68	.32	.03			3.51
Runyon	Coast				.06				.40	.19				.18	.26							.23	.83	.12			.69	.27	.03			3.26	
Rutherford	Passaic			T.		.02	.03		.48	.17				.32	.11	.04	T.				.13	.08	.69	.08			.99	.16	.06			3.36	
Sandy Hook ²	Coast				.05	T.			.32	T.				.44	.03	.02		T.			.13	.14	.45	.17			.48	.19	.04			2.46	
Somerville	Raritan								.84	T.				.	.38							.12	.95	.06			.	.81	.04			3.20	
Sussex	Hudson				.10				.65	.50				.15	.10	T.	T.					T.	.30	.50	.10	T.		.30	.20	T.			2.90
Toms River	Coast				.20				.36	.10				.60				.46					.10	.84			</						

Daily Temperatures for February 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	31	36	34	35	41	36	40	41	46	41	50	42	47	42	57	40	36	32	34	40	52	51	48	48	47	50	34	.....	.....	.....	41.5
	Minimum...	17	20	19	18	29	24	23	33	31	34	37	34	35	30	33	39	31	23	17	19	30	39	38	33	35	39	34	28	.....	.....	29.4
Barnegat City†.....	Maximum...	28	32	31	32	36	38	37	39	44	41	48	44	37	36	42	54	39	34	30	34	37	48	47	45	53	49	50	35	.....	.....	40.0
	Minimum...	15	20	17	15	26	21	22	31	30	32	36	30	33	27	26	36	29	21	14	19	27	36	32	31	31	36	36	28	.....	.....	27.0
Belleplain.....	Maximum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Belvidere.....	Maximum...	28	31	33	32	37	36	38	35	40	44	46	44	37	40	47	51	40	34	36	34	40	41	43	42	41	40	45	36	.....	.....	39.0
	Minimum...	14	22	16	1	29	7	7	28	24	23	35	25	13	22	26	32	19	10	9	16	32	35	32	21	28	35	24	.....	.....	.....	22.1
Boonton.....	Maximum...	27	30	30	35	37	39	41	34	45	47	46	43	30	35	45	52	37	30	30	31	37	45	42	44	45	53	40	38	.....	.....	38.9
	Minimum...	9	9	7	3	3	8	9	12	29	29	28	25	24	24	16	25	28	19	14	5	8	12	32	33	26	21	31	25	.....	.....	18.4
Bridgeton.....	Maximum...	31	34	32	37	39	41	44	41	44	53	49	50	40	39	48	55	49	33	30	40	38	52	52	50	55	50	57	44	.....	.....	43.8
	Minimum...	15	18	18	12	29	20	33	28	28	32	27	33	30	27	39	30	25	12	12	26	34	37	29	28	33	39	26	.....	.....	.....	26.4
Burlington.....	Maximum...	29	33	33	35	37	38	39	38	42	46	45	48	45	36	52	53	46	38	31	33	35	49	53	46	52	52	58	40	.....	.....	42.0
	Minimum...	15	21	17	14	29	17	23	32	25	31	39	32	22	27	33	32	30	24	12	6	23	32	36	32	40	29	35	25	.....	.....	26.2
Canoe Brook.....	Maximum...	28	31	33	40	42	40	33	33	44	46	40	41	31	35	44	49	33	33	33	31	37	43	36	40	45	51	37	37	.....	.....	38.1
	Minimum...	9	15	9	5	11	2	4	4	19	20	26	24	26	25	10	26	30	18	7	1	5	8	32	31	17	23	29	22	.....	.....	15.7
Cape May*.....	Maximum...	29	32	30	32	36	38	40	43	42	39	49	40	38	37	39	53	44	33	28	33	37	47	51	45	53	44	52	42	.....	.....	40.2
	Minimum...	18	21	20	19	32	24	23	33	31	33	35	29	34	31	30	38	30	28	18	22	31	36	38	34	35	36	40	28	.....	.....	29.5
Charlotteburg.....	Maximum...	23	28	28	40	34	38	40	42	45	47	46	43	33	48	50	46	39	30	28	37	46	46	41	45	46	51	40	.....	.....	.....	40.0
	Minimum...	10	18	14	9	24	8	4	28	26	26	34	22	23	21	9	29	28	16	9	30	12	28	33	30	28	22	31	25	.....	.....	21.3
Chatsworth.....	Maximum...	30	35	34	40	36	40	42	40	44	55	52	50	48	35	50	55	48	33	29	44	38	56	55	48	53	56	43	.....	.....	.....	44.0
	Minimum...	12	18	25	9	29	13	13	32	28	28	35	26	28	28	18	34	29	23	2	3	22	33	36	29	21	25	22	.....	.....	.....	22.9
Clayton.....	Maximum...	31	34	34	31	38	40	43	44	43	46	55	50	48	40	51	55	51	42	42	38	37	51	55	49	47	56	60	51	.....	.....	45.1
	Minimum...	8	12	11	11	18	18	18	30	28	38	34	22	30	28	25	38	29	19	9	3	23	33	36	31	28	30	38	23	24.0
Dover.....	Maximum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elizabeth.....	Maximum...	29	34	37	40	40	35	40	37	47	47	42	46	40	38	45	53	47	35	34	35	39	45	45	47	49	49	58	40	.....	.....	41.9
	Minimum...	13	22	12	8	29	13	13	32	26	29	31	28	25	26	20	37	31	23	13	12	13	32	36	32	24	28	36	22	23.8
Flemington.....	Maximum...	32	34	34	35	39	40	40	37	41	47	47	50	49	39	49	50	44	36	34	33	35	42	46	50	50	49	55	44	42.2
	Minimum...	15	21	16	7	30	9	11	31	30	24	35	27	24	19	31	30	21	14	11	13	32	35	33	25	28	34	25	.....	.....	.....	23.5
Fort Dix, A. A. B.*.....	Maximum...	28	32	30	36	35	36	39	36	42	49	45	47	35	32	51	52	38	31	30	35	37	55	58	45	51	57	59	33	.....	.....	41.0
	Minimum...	14	20	17	11	26	16	18	30	29	29	32	27	29	24	26	33	28	14	12	4	23	34	34	33	27	28	30	25	24.0
Freehold.....	Maximum...	27	31	31	39	35	38	40	35	43	51	45	47	42	32	46	51	43	33	31	35	36	53	54	44	49	50	59	38	41.4
	Minimum...	11	17	12	7	27	12	12	28	25	28	33	26	26	25	19	25	27	21	11	10	20	31	34	31	27	29	33	22	22.6
Hammonton.....	Maximum...	29	32	30	37	36	39	40	36	44	56	48	51	43	35	52	55	45	33	32	34	40	55	51	62	54	56	59	31	43.5
	Minimum...	12	20	23	9	21	16	21	18	29	23	31	26	22	28	28	31	28	22	6	2	21	32	33	28	27	28	28	26	22.8
Hightstown.....	Maximum...	27	32	32	36	36	37	40	36	42	47	42	45	39	35	47	49	43	32	31	33	34	50	58	44	50	50	57	31	40.6
	Minimum...	13	19	12	5	31	10	10	10	31	27	28	32	26	27	27	32	28	13	9	20	32	35	32	27	30	34	24	.....	.....	.....	23.4
Indian Mills.....	Maximum...	30	34	31	38	37	40	41	39	44	56	49	51	42	35	52	55	35	33	30	37	36	56	56	47	55	51	60	41	43.6
	Minimum...	13	19	17	6	30	13	13	33	28	29	34	25	30	28	20	38	30	23	7	1	25	34	36	29	28	31	36	23	24.2
Jersey City*.....	Maximum...	25	29	29	32	35	34	36	32	44	43	44	44	44	36	30	39	32	35	32	28	31	34	46	46	46	48	34	.....	.....	.....	37.5
	Minimum...	12	19	16	13	24	19	19	27	27	34	35	30	26	21	27	32	31	21	14	16	24	32	37	33	34	37	29	26	25.6
Lakewood.....	Maximum...	28	33	32	37	37	36	39	37	43	47	49	42	33	45	53	45	35	32	39	36	53	55	45	52	49	59	40	.....	.....	.....	42.2
	Minimum...	15	20	15	10	31	15	18	32	28	31	39	30	31	29	20	34	29	24	11	8	25	34	37	33	26	27	36	28	25.6
Lambertville.....	Maximum...	31	36	32	35	37	41	44	37	42	45	46	48	42	37	46	50	43	34	34	33	39	45	46	45	51	52	57	37	41.6
	Minimum...	14	20	15	9	29	9	10	32	29	25	33	25	29	25	21	29	21	14	16	17	33	35	32	23	26	34	26	.....	.....	.....	23.6
Layton.....	Maximum...	25	27	32	33	34	39	35	32	40	45	44	44	40	36	46	47	43	33	31	28	38	44	42	40	45	43	48	42	38.4
	Minimum...	10	18	15	10	25	8	7	21	14	19	27	17	18	21	14	30	27	12	2	3	4	30	33	31	21	31	28	.....	.....	.....	17.2
Little Falls.....	Maximum...	28	30	35	37	39	36	40	35	48	48	48	46	31	37	49	53	48	33	32	32	38	48	43	41	47	56	41	.....	.....	.....	40.7
	Minimum...	12	16	16	9	25	9	9	15	26	26	30	29	25	17	27	33	20	13	8	14	19	33	32	24	26	33	25	.....	.....	.....	21.4
Long Branch*.....	Maximum...	26	31	32	36	38	34	38	38	44	48	46	48	34	33	40	52	37	34	32	35	36	54	56	46	50	56	60	34	41.0
	Minimum...	14	21	14	11	27	17	19																									

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UNNJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON. N. J.

VOL. L.

MARCH 1945.

No. 3

GENERAL SUMMARY.

March this year was the warmest of record in New Jersey. Temperature averaged 10° above normal and was just about normal for April. The only other March comparable to this one was in 1921 though March, 1903 was almost as warm in central New Jersey. Unusually mild weather began February 22d and continued through March with the temperature almost continuously higher than normal. There were a few cold days the first part of the month in north Jersey, but during the last half of the month, little heating of homes was necessary in Trenton and vicinity. On the 17th and again on the 29th, temperatures reached the upper eighties and at a few stations, 90 degree readings were recorded. As a result of the unseasonable warmth, vegetation and particularly tree foliage, at the close of the month, had reached a stage about normal for the end of April. Tree fruits were considered too far advanced for the season.

The month was comparatively dry with 62 percent of the normal precipitation. This, however, was well distributed through the month, there being, on the average, 10 days with measurable amounts. The principal storm occurred on the 21st-22d. Most stations recorded no more than a trace of snowfall during the month though several recorded measurable amounts, mainly on the 22d. Only three other Marches of record have had as little snow. Sunshine was above normal and the only day with wind of gale force was the 31st.

With the warm dry weather, farm work made rapid progress. A large acreage of truck crops and potatoes was planted in south and central Jersey.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 43 stations, was 49.2°, which was 10° above normal. The highest temperature was 91° at Bridgeton on the 29th, and the lowest, 11°, at Charlotteburg on the 5th. The highest monthly average temperature was 53.4° at Burlington, and the lowest, 45.8° at Barnegat City.

The temperature departure from the normal for the year 1945 to date, for the State, is +1.7°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 62 stations, was 2.37 inches, which was 1.44 inches below normal. The average total snowfall at 30 selected stations was 0.1 inch, which was 4.4 inches below normal. The greatest monthly precipitation was 3.56 inches at Paterson, and the least, 0.47 inch at Cape May. The greatest amount of precipitation in any 24 consecutive hours was 1.14 inches at Newton on the 10th.

The average for the Highlands was 2.62 inches; for the Red Sandstone Plain, 2.65 inches; for the Southern Interior, 2.15 inches; and for the Sea Coast, 1.80 inches.

The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, -0.20 inch; Red Sandstone Plain, -2.13 inches; Southern Interior, -2.92 inches; Sea Coast, -3.65 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 3, 6, 11, 15, 16, 17, 19, 20, 21, 22, 28, 31.

HAIL: 22.

SLEET: 2, 7, 22.

THUNDERSTORMS: 6, 10, 12, 17, 19, 20, 21, 31.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.38	11	29.42	21	15.9	40	s.	31	80	68	76	68	489
Long Branch.....	30.37	12	29.48	31	10.1	44	w.	31	75	56	52	62	487
Trenton.....	30.36	11	29.40	31	9.0	34	s.	31	71	46	54	63	430

COMPARATIVE DATA FOR MARCH.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	30.4	66	2	1.10				
1886.....	37.7	70	9	3.70				
1887.....	37.7	61	8	3.34		10		
1888.....	32.8	72	0	5.71		11		
1889.....	40.5	67	19	3.79		8		
1890.....	37.6	78	0	6.08		14		
1891.....	37.2	68	4	5.06		12	8	10
1892.....	34.4	64	6	4.75		9	10	12
1893.....	37.0	68	6	3.73		10	10	10
1894.....	44.2	83	12	1.77		10	12	11
1895.....	36.7	72	7	3.16	4.0	10	12	8
1896.....	34.0	69	-8	5.34	13.2	11	13	8
1897.....	40.0	77	18	2.78	1.6	10	11	9
1898.....	45.1	77	16	3.33	3.0	12	9	10
1899.....	38.6	73	13	6.54	5.4	13	7	10
1900.....	35.6	67	-9	3.51	7.0	10	12	7
1901.....	39.2	75	-8	4.64	0.9	12	9	10
1902.....	43.9	77	0	4.34	5.7	11	12	10
1903.....	47.6	79	13	5.13	T.	10	11	8
1904.....	37.2	72	1	3.43	4.5	13	11	8
1905.....	39.8	87	-7	3.95	2.6	12	14	8
1906.....	34.4	62	-15	5.09	11.2	11	10	9
1907.....	41.2	88	-11	3.04	11.5	10	13	10
1908.....	41.8	89	7	2.80	3.5	12	11	9
1909.....	38.3	74	-6	3.48	4.6	13	12	10
1910.....	44.5	88	10	1.22	1.1	6	14	10
1911.....	37.6	76	3	3.38	5.3	11	10	12
1912.....	36.9	72	3	7.61	6.6	14	9	11
1913.....	44.8	79	1	5.15	0.1	12	10	9
1914.....	35.4	75	-6	3.65	20.5	10	13	8
1915.....	36.1	63	11	1.13	7.4	3	20	7
1916.....	31.7	71	-7	3.48	19.3	12	13	8
1917.....	38.2	72	0	4.65	9.8	13	12	14
1918.....	41.8	82	8	2.06	0.7	9	17	7
1919.....	43.2	77	12	5.32	1.6	13	14	7
1920.....	39.4	79	-8	3.80	5.6	10	17	5
1921.....	49.1	92	11	3.03	T.	11	14	10
1922.....	41.1	82	2	4.62	3.7	13	12	6
1923.....	38.0	81	-3	4.09	6.3	10	17	6
1924.....	38.8	76	5	2.51	2.7	8	16	6
1925.....	43.3	80	1	3.47	0.3	9	16	6
1926.....	35.1	79	0	2.25	0.4	7	16	9
1927.....	41.9	81	9	1.46	0.3	10	14	7
1928.....	38.3	82	6	2.84	4.9	10	14	8
1929.....	44.9	81	5	3.07	0.7	11	15	6
1930.....	40.0	78	9	2.54	0.1	7	16	7
1931.....	39.2	64	12	4.14	2.0	10	8	9
1932.....	36.6	69	3	5.49	2.5	9	14	6
1933.....	38.2	70	8	4.94	1.7	13	10	7
1934.....	36.5	77	-7	3.31	9.6	12	13	7
1935.....	43.0	81	-6	2.46	1.5	10	13	5
1936.....	45.3	78	-1	5.28	1.4	13	10	9
1937.....	35.8	66	7	2.75	4.3	10	14	6
1938.....	43.2	85	-1	2.15	1.6	11	12	7
1939.....	40.1	83	2	4.83	2.0	13	12	7
1940.....	34.7	72	8	5.14	3.3	12	10	9
1941.....	34.5	63	3	2.78	14.6	8	16	6
1942.....	42.2	72	-16	5.73	1.7	12	10	8
1943.....	39.4	85	-10	3.03	6.5	10	13	7
1944.....	37.1	74	2	5.70	6.3	12	10	10
1945.....	49.2	91	11	2.37	0.1	10	14	7
Period.....	39.2	92	-15	3.81	4.5	12	13	8

Climatological Data for March 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic	8	72	49.2	+10.6	77	30	28	8	0.99	-2.61	0.45	21	T.	10	10	8	13	s.	U. S. Weather Bureau.
Barnegat City.....	Ocean	36	6	45.8	.....	72	27†	26	8	1.44	.....	0.68	21	.....	8	.....	.....	.....	.....	U. S. Coast Guard.
Belleplaine.....	Cape May	49	51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth	19	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren	289	53	49.4	+10.9	87	29	23	8	3.02	-0.80	0.67	22	T.	11	.....	.....	.....	.....	Miss C. S. Hixson.
Berlin.....	Camden	70	4	.....	.....	.....	.....	.....	.....	2.20	.....	0.50	21	.....	9	17	7	7	.....	Samuel H. McCulley.
Boonton.....	Morris	280	55	47.2	+11.3	83	28	22	8	2.67	-0.89	0.87	21	.....	11	14	10	7	nw.	John Kline.
Bridgeton.....	Cumberland	30	62	52.8	+10.4	91	29	26	5†	2.22	-1.84	1.22	22	0	5	20	5	6	nw.	Bennett K. Matlack.
Brooklawn.....	Camden	30	4	.....	.....	.....	.....	.....	.....	1.20	.....	0.34	21	.....	6	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington	12	59	53.4	+11.1	88	29	25	5†	3.21	-0.58	0.95	21	.....	6	14	8	9	w.	Public Service E. & G. Co.
Canoe Brook††	Essex	150	15	45.9	+8.9	86	29	17	5†	2.73	-1.87	0.59	7	.....	14	17	5	9	sw.	N. J. Water Policy Comm.
Cape May.....	Cape May	17	57	48.3	+7.5	76	29	30	8	0.47	-3.37	0.21	21	0	10	9	12	10	s.	Naval Air Station.
Charlotteburg††	Passaic	760	53	47.4	+11.1	85	17†	11	5	2.20	-1.86	0.64	6	T.	11	10	6	15	w.	Newark Water Dept.
Chatham.....	Morris	185	41	.....	.....	.....	.....	.....	.....	2.43	-1.66	0.61	7	.....	14	16	11	4	.....	Edward P. Molitor.
Chatsworth.....	Burlington	90	5	49.8	.....	90	29	18	12	1.92	.....	0.80	21	.....	5	15	8	8	sw.	Alfred L. Stevenson.
Clayton.....	Gloucester	120	32	52.1	+10.3	88	18	24	12	2.66	-0.96	0.80	21-22	.....	12	15	5	11	s.	Worthy Hitt.
Clinton.....	Hunterdon	300	2	.....	.....	.....	.....	.....	.....	2.69	.....	0.54	6†	.....	12	12	7	12	sw.	L. W. Klockner.
Culvers Lake††	Sussex	760	44	.....	.....	.....	.....	.....	.....	1.98	-1.33	0.51	6	T.	12	.....	.....	.....	.....	L. S. Depue.
Dover.....	Morris	600	61	47.6	+11.6	86	29	20	5†	3.23	-0.78	0.80	20-21	.....	13	11	8	12	.....	William C. Harris.
Elizabeth.....	Union	34	66	50.8	+11.4	88	29	21	8	2.92	-1.15	0.80	21-22	T.	12	14	6	11	uw.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	140	59	51.4	+10.8	88	29	24	5†	3.11	-0.65	0.73	20-21	T.	13	16	5	10	sw.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120	1	49.9	.....	87	17†	24	12	2.21	.....	0.85	22	.....	11	6	10	15	sw.	A. A. B. Weather Station.
Freehold.....	Monmouth	194	51	49.8	+10.8	87	17	20	8	2.39	-2.10	0.89	22	2.0	8	15	10	6	sw.	Moreau Plant Co.
Hammonton.....	Atlantic	95	39	52.4	+10.9	90	17†	24	9	1.42	-2.55	0.64	13	0	6	9	13	9	sw.	J. G. Wilson.
Hightstown.....	Mercer	110	52	50.7	+10.1	87	17	23	8†	2.77	-1.00	1.13	22	0.3	11	13	10	8	sw.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington	100	56	51.2	+10.1	90	29	20	5	2.65	-1.36	0.97	22	1.0	12	13	10	8	sw.	Edward Entwistle.
Jersey City.....	Hudson	81	47	48.6	+8.7	84	29	28	5	2.96	-1.01	0.84	21	T.	11	16	8	7	sw.	J. C. Water Dept.
Lakewood.....	Ocean	54	41	50.6	+10.3	89	29	25	5	2.73	-1.23	0.90	21-22	0.5	8	9	10	12	sw.	R. W. Holman.
Lambertville.....	Hunterdon	75	58	50.3	+11.1	88	29	22	8	1.50	-2.28	0.38	21	0	10	15	6	10	sw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex	450	44	46.4	+10.6	85	29	14	5	2.26	-1.10	0.44	6†	.....	13	13	7	11	sw.	A. M. Depue.
Little Falls.....	Passaic	157	42	48.8	+9.9	87	29	22	5	2.94	-0.83	0.93	21	0.5	13	14	11	6	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth	34	37	49.4	+10.1	87	29	25	5†	2.14	-1.98	0.62	22	1.0	12	14	6	11	s.	Storm Warn. Display Sta.
Long Valley.....	Morris	660	15	45.9	+10.8	85	29	17	5	2.75	-1.17	0.72	20-21	0	11	17	9	5	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	4	.....	.....	.....	.....	.....	.....	1.85	.....	0.46	21-22	.....	10	17	6	8	sw.	David Griscorn.
Mays Landing.....	Atlantic	50	1	.....	.....	.....	.....	.....	.....	1.71	.....	0.52	22	T.	11	16	7	8	nw.	Elmer Earle.
Millville.....	Cumberland	60	5	.....	.....	.....	.....	.....	.....	1.87	.....	0.69	22	.....	10	17	9	5	.....	Paul Ritchie.
Moorestown.....	Burlington	62	82	50.1	+10.2	87	17	25	5	1.73	-1.95	0.35	22-23	T.	10	16	5	10	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	500	4	.....	.....	.....	.....	.....	.....	2.47	.....	0.87	20-21	T.	9	18	5	8	.....	James C. Long.
Newark.....	Essex	10	91	50.6	+11.2	89	29	26	8	2.63	-1.27	0.67	21-22	T.	12	10	8	13	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex	86	91	50.4	+11.2	86	17†	23	8	2.11	-1.57	0.91	21-22	T.	9	14	11	6	sw.	N. J. Experiment Station.
New Milford††	Bergen	12	27	.....	.....	.....	.....	.....	.....	3.44	-0.32	0.77	31	.....	11	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex	769	62	48.4	+12.4	85	29	16	7	3.28	-0.10	1.16	10-11	T.	15	13	7	11	sw.	Irving J. Kern.
Orange††	Essex	140	5	.....	.....	.....	.....	.....	.....	2.48	.....	0.85	6	.....	8	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic	95	74	48.3	+11.2	87	29	21	8	3.56	-0.59	0.81	20	0.2	12	13	10	8	sw.	J. W. Cook.
Pemberton.....	Burlington	55	16	52.5	+11.0	89	17	26	5†	2.18	-1.41	0.79	21-22	T.	10	15	3	13	w.	Charles A. Doehliert.
Phillipsburg.....	Warren	182	56	48.7	+10.2	85	29	22	8	2.69	-0.80	0.55	5-6	T.	12	17	7	7	.....	Town Engineer.
Plainfield.....	Union	120	57	50.1	+11.0	90	29	21	8	2.44	-1.65	0.64	6	T.	11	11	10	10	sw.	S. K. Pearson.
Plainsboro.....	Middlesex	110	4	.....	.....	.....	.....	.....	.....	2.49	.....	0.75	21-22	.....	8	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††	Atlantic	8	47	49.0	+8.6	87	29	20	5	1.37	-1.26	0.41	21-22	T.	11	14	5	12	s.	N. J. Water Policy Comm.
Rahway.....	Union	20	6	.....	.....	.....	.....	.....	.....	2.40	.....	0.60	21-22	T.	11	14	9	8	w.	Louis Fontenelli.
Ridgefield.....	Bergen	80	28	49.3	+10.8	88	29	23	8	3.14	-0.84	0.78	6	0.4	11	12	8	11	uw.	George P. Kirsten.
Runyon††	Middlesex	18	22	47.4	+8.0	85	16	16	5†	2.58	-1.03	0.68	21-22	.....	9	19	6	6	w.	N. J. Water Policy Comm.
Rutherford.....	Bergen	51	1	.....	.....	.....	.....	.....	.....	3.09	.....	0.77	6	T.	14	10	6	15	nw.	Harold Scott.
Sandy Hook.....	Monmouth	15	47	47.4	+8.1	84	29	27	8	2.98	-1.06	1.05	21-22	.....	12	.....	.....	.....	.....	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	62	51.1	+12.3	86	17†	18	8	2.29	-1.53	0.55	10-11	.....	8	15	3	13	w.	Joseph Starkman.
Sussex.....	Sussex	450	50	49.9	+13.1	90	17†	20	5†	2.11	-1.33	0.64	5-6	T.	15	9	9	13	sw.	Marshall Hunt.
Toms River.....	Ocean	33	24	.....	.....	.....	.....	.....	.....	1.96	-2.58	0.64	21-22	T.	9	.....	.....	.....	.....	Robt. P. Snyder.
Trenton.....	Mercer	56	73	51.8	+12.7	86	17†	26	8	1.76	-1.64	0.48	5-6	T.	11	10	9	12	s.	U. S. Weather Bureau.
Trenton No. 2.....	do.	105	15	51.6	.....	88	29	25	8	2.12	-1.92	0.51	6	T.	11	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean	23	52	50.6	+9.4	84	29	27	8†	1.34	-2.56	0.49	21-22	T.	7	16	10	5	sw.	John H. Brown.
Vineland.....	Cumberland	110	65	.....	.....	.....	.....	.....	.....	2.21	-1.74	1.00	22	.....	7	18	8	5	sw.	Robert Jones.
Westfield.....	Union	145	6	.....	.....	.....	.....	.....	.....	2.07	.....	0.83	22	.....	11	19	1	11	s.	Town Engineer.
Woodcliff Lake††	Bergen	103	27	.....	.....	.....	.....	.....	.....	2.89	-0.81	0.83	6	.....	10	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem	16	10	.....	.....	.....	.....	.....	.....	2.51	.....	.....	.....	.....	3	22	3	6	sw.	Geo. S. Keen.
New York, N. Y.	.....	10	75	51.0	+13.3	84	29	24	8	2.23	-1.41	0.63	21-22	0.1	12	11	8	12	sw.	U. S. Weather Bureau.
Philadelphia, Pa.	.....	10	75	51.2	+12.1	87	29	28	8	1.72	-1.67	0.49	5-6	0	11	11	8	12	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	49.2	+10.0	91	29	11	5	2.37	-1.44	1.14	10	0.1	10	14	7	10	sw.	.....

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Stations	Drainage Basin	Day of month																																Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast	T.	T.	.04			.14	.01				T.	T.	.01		.05	.01	T.					.45	.16							.03	.09	0.9	
Barnegat City ⁴	do.			.03		.05	.25				.03	T.	T.			.01				T.		.68	.36								T.	.08	1.4	
Relleplain	Tuckahoe																																	
Belmar ²	Coast		.05	.11		T.	.51	.10			T.	T.	.04	T.		.25	.09			.08		.41	.95									.20	2.7	
Belvidere	Delaware			.23			.67	.25			T.		.09					.15		.09		.63	.83									.58	3.0	
Berlin	Mullica			.15		.10	.30	.41			.05					.15				T.		.50	.45									.30	2.2	
Boonton ³	Passaic	.07		.08	T.							.08				.02		.05		T.	T.	.24	.87	.27	T.							.28	2.6	
Bridgeton	Delaware						.18	.32								.09						.41	1.22											
Brooklawn	do.	T.		.10			.12	.32			T.		T.			.08						.24	.34	T.									1.2	
Burlington	do.			.27			.23	.31								.50						.95	.42	.50										3.2
Canoë Brook ³	Passaic	.08		.18	.01		.41	.50	.02				.05			.11				.03		.03	.55	.31	.27								.09	2.7
Cape May ^{2†}	Coast		.03	.03		T.	.02	.01		.09		T.	T.			.01		.01			.03	.03	.21								T.	.03	0.4	
Charlotteburg	Passaic	.09		.14			.64	.18				.05		.05			.10					.18	.43	.23									.11	2.2
Chatham ³	do.	.06		.18	.04		.34	.61	.02						.05		.09		.03		.03	.46	.25	.17								.10	2.4	
Chatsworth	Coast						.39	.19								.40						*	1.22										.11	1.9
Clayton	Delaware	.15					.30	.48				.23										.70	.80										.14	2.6
Clinton	Raritan			.32			.50	.26				.04	T.		.04		.10			.07	.22	.54	.40	.02									.14	2.6
Culvers Lake	do.	.03		.13			.51	.20						.04			.12	.06			.08	.37	.15										.17	1.9
Dover	Passaic		.02	.15			.71	.17			.13		.04				.14	.10			.22	.10	.80	.05									.60	3.2
Elizabeth	Coast	.03																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. ⁴ Precipitation is from 1:30 a. m. to 1:30 a. m. † Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

Amounts in italics are interpolated. §§ Incomplete.

Daily Temperatures for March 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	50	46	66	51	43	52	46	39	48	48	42	45	53	49	53	70	77	66	55	73	56	48	62	68	55	52	76	70	76	77	63	57.3
Barnegat City†.....	Maximum...	33	37	40	36	31	40	34	28	33	37	35	37	34	39	44	43	50	46	46	49	47	35	37	44	43	44	47	52	52	50	41.1	
	Minimum...	47	45	60	45	43	47	47	41	43	46	42	43	51	48	50	56	66	64	58	55	42	42	60	65	56	53	72	69	72	63	53.5	
	Minimum...	32	32	40	32	30	40	33	26	32	32	36	35	35	33	42	42	43	47	42	41	31	31	36	42	41	41	43	47	45	48	38.0	
Belleplain.....	Maximum...																																
	Minimum...																																
Belvidere.....	Maximum...	50	49	55	54	41	45	44	38	50	52	48	45	57	64	74	79	85	64	68	81	74	45	64	62	70	72	76	86	87	80	75	62.4
	Minimum...	30	26	37	30	24	35	34	23	25	29	32	27	31	26	30	49	43	42	36	49	45	38	37	38	33	34	46	43	47	54	53	36.3
Boonton/.....	Maximum...	47	48	58	46	42	46	43	44	46	49	45	45	54	61	69	74	82	65	68	78	54	46	59	66	69	67	71	83	82	72	75	59.8
	Minimum...	27	26	31	30	23	26	36	22	24	27	29	23	27	25	26	38	45	45	34	37	49	38	37	44	34	33	39	43	48	56	51	34.6
Bridgeton.....	Maximum...	48	57	65	60	45	54	51	45	51	60	50	48	57	63	68	85	89	74	79	87	75	61	60	68	70	72	80	88	91	77	82	66.5
	Minimum...	30	28	44	35	26	40	38	27	28	29	30	26	30	28	40	48	49	53	40	51	58	35	40	37	36	36	43	46	51	58	55	39.2
Burlington.....	Maximum...	47	52	59	61	49	52	48	44	49	55	50	49	56	65	69	81	87	80	77	84	79	46	60	69	69	71	75	82	88	83	81	65.1
	Minimum...	30	28	45	34	25	37	38	25	29	30	32	25	33	28	40	48	45	52	40	47	48	38	46	55	50	55	55	48	71	61	60	41.7
Canoe Brook /.....	Maximum...	46	49	58	48	42	47	42	46	49	50	45	43	57	60	69	74	83	65	70	81	51	39	64	75	75	62	73	80	86	74	75	60.6
	Minimum...	29	21	28	31	17	25	34	17	19	21	27	18	27	19	27	39	38	42	29	40	49	37	35	27	25	25	37	37	42	56	50	31.2
Cape May*.....	Maximum...	44	50	65	50	40	62	48	42	47	45	42	43	52	45	59	71	73	64	54	74	54	50	62	64	58	50	72	68	76	73	63	56.8
	Minimum...	33	35	39	35	31	40	37	30	34	35	34	36	38	38	42	41	47	45	44	37	37	34	40	44	42	42	46	50	48	51	50	39.8
Charlotteburg.....	Maximum...	44	50	58	57	46	44	46	41	44	49	49	43	52	60	71	78	85	81	69	80	78	44	55	64	69	70	70	85	84	84	70	61.9
	Minimum...	26	25	36	28	11	34	31	18	27	22	26	17	31	18	37	42	37	45	27	48	41	35	33	38	27	30	49	38	43	53	48	32.9
Chatsworth.....	Maximum...	47	50	66	65	48	50	52	45	50	55	47	48	55	61	65	81	87	75	71	88	80	50	67	70	75	77	80	86	80	86	80	64.8
	Minimum...	30	20	38	33	20	38	38	21	21	32	25	18	30	21	36	50	43	54	33	44	45	32	32	33	28	26	37	40	42	60	60	34.8
Clayton.....	Maximum...	48	59	64	54	62	52	52	46	50	51	58	49	56	63	67	84	86	88	80	84	82	64	61	63	71	68	76	84	87	87	73	66.7
	Minimum...	29	25	34	30	25	38	37	25	27	29	32	24	26	39	50	49	49	39	35	50	50	35	37	41	33	42	44	45	47	63	54	37.5
Dover.....	Maximum...	47	49	55	45	41	45	44	43	46	50	44	43	54	59	70	77	83	69	80	62	48	59	65	70	68	72	83	86	72	73	60.2	
	Minimum...	28	28	37	29	20	34	29	20	27	23	29	22	31	24	35	47	50	46	33	49	40	35	34	36	31	31	47	44	48	52	50	35.1
Elizabeth.....	Maximum...	52	52	60	58	45	48	44	46	50	54	48	47	58	62	67	80	84	72	72	84	82	70	63	71	77	71	76	87	88	81	77	65.4
	Minimum...	30	26	42	32	25	37	35	21	26	25	32	24	28	25	32	45	45	45	35	47	43	35	36	36	31	42	46	47	56	59	36.1	
Flemington.....	Maximum...	53	53	58	58	48	47	47	51	54	55	50	47	59	63	73	84	84	78	74	86	78	45	65	69	74	71	80	86	88	81	79	65.7
	Minimum...	30	28	40	31	24	36	35	24	25	28	34	25	32	26	32	46	48	50	35	48	44	37	36	38	35	32	45	47	46	56	53	37.0
Fort Dix, A. A. B.*.....	Maximum...	46	52	61	49	43	50	46	42	48	54	46	48	55	63	66	79	87	66	76	85	63	42	37	36	37	66	69	74	84	87	73	62.2
	Minimum...	30	29	44	32	25	38	31	25	35	31	29	24	34	26	38	49	46	45	39	47	41	31	35	42	40	32	44	50	49	56	50	37.6
Freehold.....	Maximum...	47	54	62	60	45	48	46	45	49	55	45	46	55	63	67	80	87	77	74	83	72	42	60	66	66	71	73	85	86	73	79	63.3
	Minimum...	28	26	43	30	24	35	34	20	23	29	28	24	29	27	37	46	57	49	46	37	46	39	30	35	32	30	44	50	50	59	52	36.3
Hammonton.....	Maximum...	54	58	66	50	44	48	51	51	55	67	59	45	58	65	67	83	90	74	80	83	66	48	68	68	73	68	76	83	84	80	74	65.9
	Minimum...	35	36	44	33	29	36	34	36	24	27	30	24	33	25	42	40	47	53	87	51	47	37	37	34	34	41	47	47	49	60	55	38.8
Hightstown.....	Maximum...	48	52	60	58	46	47	46	45	48	55	49	48	55	64	70	80	87	77	75	83	75	43	60	67	68	69	73	84	85	80	79	63.7
	Minimum...	29	28	45	32	25	36	36	23	27	36	31	23	31	29	38	50	47	50	39	47	41	32	36	36	32	44	48	51	59	55	37.7	
Iudian Mills.....	Maximum...	48	56	66	62	44	51	48	44	51	57	47	50	57	64	66	82	88	76	78	87	76	48	62	68	71	70	78	87	90	79	80	65.5
	Minimum...	31	27	45	34	20	39	39	21	23	29	34	23	26	24	40	51	46	53	39	46	46	32	35	34	30	29	43	43	48	61	55	37.0
Jersey City*.....	Maximum...	46	50	59	48	38	44	42	42	45	46	43	40	54	50	58	75	68	64	60	80	61	39	57	65	60	57	72	80	84	74	74	57.3
	Minimum...	29	32	40	32	28	36	33	24	30	32	31	32	33	36	42	46	50	50	46	50	39	32	34	42	42	42	48	55	57	59	52	39.8
Lakewood.....	Maximum...	50	56	67	62	43	49	48	45	50	55	47	46	56	62	61	80	84	72	74	85	75	44	61	69	65	69	66	87	89	79	80	63.7
	Minimum...	33	31	46	34	25	38	37	25	26	31	26	26	30	30	37	47	49	43	37	49	40	33	35	34	33	29	44	54	54	54	56	37.6
Lambertville.....	Maximum...	58	53	57	57	47	47	45	45	51	55	52	47	58	63	72	79	85	77	74	84	77	45	63	70	71	70	74	85	88	82	77	64.8
	Minimum...	24	26	42	31	23	35	36	22	24	28	33	25	29	25	33	45	43	49	36	42	42	37	36	34	32	32	44	45	46	58	53	35.8
Layton.....	Maximum...	46	48	53	53	42	43	43	45	45	44	47	44	52	62	72	79	84	78	65	82	76	45	60	65	81	70	74	84	85	82	74	62.0
	Minimum...	26	25	33	27	14	32	32	16	16	22	19	17	25	18	26	38	37	43	28	49	43	35	34	22	24	27	43	32	42	52	48	30.8
Little Falls/.....	Maximum...	47	51	62	48	41	48	45	49	48	47	45	57	62	70	80	84	67	70	82	49	48	61	67	71	70	75	86	87	75	77	61.9	
	Minimum...	30	26	33	31	22	28	34	23	26	26	30	24	32	26	34	43	44	45	35	46	48	38	35	37	34	33	45	44	49	55	52	3

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. L

APRIL 1945.

No. 4

GENERAL SUMMARY.

The unseasonably warm weather which prevailed from February 22d through March continued in April until about the 17th, and at about the same rate of excess temperature. The entire period of nearly eight weeks averaged about 12° warmer than normal at Trenton. Past weather records of New Jersey do not show another period of similar length during the spring season with such abnormal warmth. The highest temperatures in April were on the 13th and 14th, but readings were not as high as in the preceding month of March. During the last two weeks of the month, temperature conditions were near normal. Frosts occurred on several mornings, the most severe on the 23d, when heavy damage was caused garden and truck crops in central and south Jersey. Growth of vegetation was slowed by the cool cloudy weather during the latter part of the month.

There was no measurable snowfall anywhere during the month. Rainfall averaged slightly less than normal for the State but was above normal in the northern portion causing delay in farm work. Rains were frequent and comparatively heavy during the last half of the month. Strong winds occurred on the 5th, 14th and 27th, but no great damage was caused.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 43 stations, was 54.5°, which was 4.9° above normal. The highest temperature was 90° at Sussex on the 13th, and the lowest, 20°, at Layton on the 23d. The highest monthly average temperature was 58.3° at Burlington, and the lowest, 50.8° at Long Valley.

The temperature departure from the normal for the year 1945 to date, for the State, is +2.5°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 64 stations, was 3.28 inches, which was 0.33 inch below normal. The greatest monthly precipitation was 5.29 inches at Morris Plains, and the least, 1.97 inches at Sandy Hook. The greatest amount of precipitation in any 24 consecutive hours was 1.97 inches at Ridgefield on the 25th.

The average for the Highlands was 4.01 inches; for the Red Sandstone Plain, 3.74 inches; for the Southern Interior, 2.77 inches; and for the Sea Coast, 2.47 inches.

The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, +0.20 inch; Red Sandstone Plain, -2.11 inches; Southern Interior, -3.76 inches; Sea Coast, -4.72 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 4, 5, 8, 9, 10, 11, 12, 13, 14, 16, 17, 25.
HAIL: 2, 21.
THUNDERSTORMS: 1, 2, 5, 14, 16, 17, 21, 25, 26, 27.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.72	7	29.52	26	16.0	41	nw.	5	83	71	81	64	364
Long Branch.....	30.70	7	29.50	25	12.1	52	w.	27	80	52	68	62	348
Trenton.....	30.69	7	29.52	25	9.6	38	nw.	14	76	49	62	61	276

COMPARATIVE DATA FOR APRIL.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	48.4	88	26	2.79				
1886.....	50.6	86	27	3.40				
1887.....	47.3	87	16	2.70		7		
1888.....	47.9	92	22	3.28		9		
1889.....	51.2	83	25	5.32		12		
1890.....	50.4	86	21	2.65		8		
1891.....	52.0	88	20	2.19		8	13	11
1892.....	49.3	87	19	2.49		8	9	13
1893.....	49.2	82	19	5.21		11	9	10
1894.....	50.3	88	10	3.09		9	12	9
1895.....	49.1	89	19	4.88	T.	10	11	7
1896.....	52.4	98	12	1.35	3.1	7	13	10
1897.....	50.4	89	19	3.79	T.	9	14	11
1898.....	47.8	81	13	3.74	2.9	11	8	11
1899.....	49.9	88	18	1.73	T.	4	16	10
1900.....	50.8	82	18	2.29	T.	6	14	9
1901.....	48.3	89	23	6.31	0	12	8	7
1902.....	50.2	93	20	3.62	0	9	10	11
1903.....	50.9	92	18	3.97	0	9	13	7
1904.....	46.7	85	16	3.42	0.1	10	9	12
1905.....	49.9	84	18	2.88	0.1	10	12	11
1906.....	51.2	87	17	3.64	T.	8	15	10
1907.....	45.2	83	19	3.78	4.8	11	11	9
1908.....	51.2	93	13	2.72	T.	11	14	9
1909.....	50.2	88	17	5.97	0.8	13	10	11
1910.....	53.5	88	20	5.34	0	12	9	11
1911.....	47.4	88	14	4.11	2.6	11	10	10
1912.....	50.4	82	18	3.56	0	14	9	10
1913.....	52.1	89	19	5.78	T.	11	14	7
1914.....	48.4	89	16	3.67	0	11	13	10
1915.....	54.4	96	20	2.71	11.5	9	14	7
1916.....	48.2	85	21	3.32	4.4	13	10	9
1917.....	48.8	88	21	2.39	4.7	9	15	8
1918.....	49.8	81	22	4.05	2.6	12	11	8
1919.....	49.3	85	15	3.06	T.	10	13	7
1920.....	48.0	85	13	4.50	T.	13	12	9
1921.....	56.3	87	20	3.57	0.4	11	13	6
1922.....	51.0	89	18	2.55	T.	10	15	7
1923.....	50.0	91	3	3.55	0.5	9	16	6
1924.....	48.0	81	18	6.15	6.6	11	15	6
1925.....	51.4	88	15	2.40	0	9	15	7
1926.....	46.4	87	14	2.05	T.	8	13	10
1927.....	47.5	93	17	2.42	0.3	9	14	7
1928.....	47.4	85	16	5.26	0.9	12	12	8
1929.....	51.1	94	25	6.43	T.	15	10	5
1930.....	47.6	79	18	2.34	T.	9	13	7
1931.....	49.8	80	20	2.85	T.	9	15	6
1932.....	48.3	82	18	2.71	0.1	7	15	7
1933.....	50.4	85	20	4.84	0.2	11	12	7
1934.....	49.4	85	21	3.89	T.	13	15	6
1935.....	48.7	91	22	2.27	0.3	10	10	8
1936.....	48.0	90	19	3.23	0.1	12	11	8
1937.....	49.3	85	16	4.64	T.	12	11	9
1938.....	53.0	94	12	2.82	2.8	9	14	8
1939.....	48.3	89	20	5.12	0.1	14	9	8
1940.....	45.5	79	15	5.62	2.2	12	9	8
1941.....	55.4	96	19	2.32	0	5	19	6
1942.....	53.1	95	18	1.39	1.6	4	15	8
1943.....	45.5	81	11	2.82	T.	11	12	9
1944.....	47.9	82	6	5.45	3.5	13	10	8
1945.....	54.5	90	20	3.28	T.	11	12	8
Period.....	49.6	98	3	3.61	1.2	10	12	9

Climatological Data for April 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	72	52.9	+5.1	78	3	35	6	2.79	-0.20	1.01	25	0	11	7	9	14	s.	U. S. Weather Bureau.
Barneget City.....	Ocean.....	36	6	51.8	.....	79	14	34	6	2.56	.....	1.43	26	0	10	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	51	.....	.....	84	14	.....	.....	3.31	-0.29	1.30	17-18	0	10	14	10	6	s.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	4	.....	.....	.....	.....	.....	.....	2.35	.....	1.01	25	0	11	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	53	53.3	+5.6	87	13	30	7†	4.23	+0.52	1.48	25	0	10	15	7	8	.....	Miss C. S. Hixson.
Berlin.....	Camden.....	70	4	.....	.....	.....	.....	.....	.....	2.15	.....	0.60	25	0	7	18	10	2	.....	Samuel H. McCulley.
Boonton.....	Morris.....	280	55	52.7	+4.7	81	14	26	10	3.62	-0.10	1.14	25-26	0	11	13	7	10	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	62	57.0	+4.8	87	14	29	6	3.25	-0.15	1.04	18	0	11	14	8	8	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	4	.....	.....	.....	.....	.....	.....	2.53	.....	0.76	18-25	0	7	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	59	58.3	+6.4	85	14	33	7†	2.93	-0.81	0.63	18-19	0	10	14	4	12	w.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	15	51.4	+4.5	80	14	23	7†	4.23	+0.34	1.29	25	0	13	14	7	9	nw.	N. J. Water Policy Comm.
Cape May.....	Cape May.....	17	57	53.5	+5.1	75	14	37	23	2.53	-0.57	0.54	26	0	13	8	8	14	nw.	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	53	52.6	+5.9	84	13	22	7	4.22	+0.08	0.86	4-5	0	12	12	2	16	w.	Newark Water Dept.
Chatham.....	Morris.....	185	41	.....	.....	.....	.....	.....	.....	4.28	+0.12	1.33	25	0	13	16	5	9	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	5	55.4	.....	88	14	24	7	2.34	.....	0.85	18	0	7	10	12	8	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	32	55.6	+5.3	83	14	29	6	3.74	+0.14	1.14	17-18	0	7	11	8	11	s.	Worthy Hitt.
Clinton.....	Hunterdon.....	300	2	.....	.....	.....	.....	.....	.....	4.08	.....	1.26	17-18	0	10	12	2	16	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	44	.....	.....	.....	.....	.....	.....	3.63	+0.14	1.22	5	0	11	.....	.....	.....	.....	L. S. Depue.
Dover.....	Morris.....	600	61	52.7	+5.3	81	13	27	7	4.25	+0.48	1.58	25	0	9	6	12	12	.....	William C. Harris.
Elizabeth.....	Union.....	34	66	55.8	+4.9	85	13†	27	6	3.83	+0.15	0.96	24-25	0	14	13	6	11	nw.	Union County Park Comm.
Flemington, 2 mi. NE.....	Hunterdon.....	140	59	56.6	+6.4	85	13†	28	23	3.69	+0.07	0.74	17-18	0	11	14	7	9	nw.	Hiram E. Deats.
Fort Dix, A. A. B.....	Burlington.....	120	1	54.8	.....	84	14	30	6	2.35	.....	0.55	17	0	11	5	7	18	w.	A. A. B. Weather Station.
Freehold.....	Monmouth.....	194	41	53.8	+3.6	84	14	28	6†	2.66	-1.02	0.66	25	0	13	18	5	7	s.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	39	.....	.....	.....	.....	.....	.....	4.41	+0.59	1.12	12	0	12	6	15	9	se.	J. G. Wilson.
Hightstown.....	Mercer.....	110	52	54.6	+4.4	83	14	29	6†	2.42	-1.40	0.59	25	0	10	11	13	6	nw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	56	55.9	+5.4	87	14	26	23	2.51	-1.10	0.49	25	0	11	11	13	6	nw.	Edward Entwistle.
Jersey City.....	Hudson.....	81	47	53.2	+3.1	82	14	34	6†	2.38	-1.44	1.25	25	0	10	14	7	9	ne.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	41	55.0	+5.4	86	14	29	23	2.98	-0.88	0.68	25	0	11	9	10	11	sw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	58	54.9	+4.9	84	13	29	23	4.18	+0.45	1.38	25-26	0	11	13	3	14	sw.	Mabel Wollaston.
Layton††, 3 miles NW.....	Sussex.....	480	44	52.0	+5.3	87	14	20	23	3.57	+0.04	1.03	5	0	10	10	4	16	s.	A. M. Depue.
Little Falls.....	Passaic.....	157	42	54.8	+5.4	85	14	29	23	3.85	-0.37	1.27	25	0	13	8	15	7	nw.	Passaic Valley Water Co.
Loug Branch.....	Monmouth.....	34	37	53.4	+5.2	85	14	31	6	2.70	-1.52	0.92	25	0	13	12	8	10	s.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	15	50.8	+3.0	83	13	22	7	4.94	+1.29	1.55	25	0	10	15	9	6	w.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	4	.....	.....	.....	.....	.....	.....	2.53	.....	0.61	24-25	0	9	12	12	6	sw.	David Griscom.
Mays Landing.....	Atlantic.....	50	1	.....	.....	.....	.....	.....	.....	2.85	.....	0.84	17-18	0	12	15	6	9	nw.	Elmer Earle.
Millville.....	Cumberland.....	60	5	.....	.....	.....	.....	.....	.....	2.89	.....	1.09	17-18	0	11	14	10	6	sw.	Paul Ritchie.
Moorestown.....	Burlington.....	62	82	55.2	+4.8	84	14	29	23	2.84	-0.57	0.90	26	0	13	8	4	18	nw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	500	4	.....	.....	.....	.....	.....	.....	5.29	.....	1.32	25	0	10	16	5	9	.....	James C. Long.
Newark.....	Essex.....	10	91	55.2	+5.2	84	13†	33	6	2.89	-0.83	1.05	25	T.	10	9	7	14	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	91	55.0	+5.4	81	13	31	6	2.99	-0.65	1.23	25-26	0	12	15	5	10	sw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	27	.....	.....	.....	.....	.....	.....	3.08	-0.53	1.41	25	0	10	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	62	53.2	+5.4	84	13	24	23	3.91	+0.55	1.16	4-5	0	14	13	4	13	sw.	Irving J. Kern.
Orange†.....	Essex.....	140	5	.....	.....	.....	.....	.....	.....	3.97	.....	.....	.....	.....	.....	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	74	54.2	+3.6	86	13	31	7†	3.34	-0.25	1.17	25	0	9	10	11	9	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	16	57.2	+6.3	85	14	30	23	2.24	-0.99	0.66	17-18	0	13	17	4	9	w.	Charles A. Doehlert.
Phillipsburg.....	Warren.....	182	62	53.8	+4.4	84	13	28	7	3.61	+0.27	1.02	25	0	10	16	2	12	.....	Town Engineer.
Plainfield.....	Union.....	120	57	54.9	+5.5	84	13	29	7	4.25	-0.48	1.56	25	0	10	10	8	12	nw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	4	.....	.....	.....	.....	.....	.....	3.16	.....	0.70	25	0	11	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	47	54.0	+5.4	84	14	27	6†	3.19	-0.35	1.03	17-18	0	12	10	11	9	uw.	N. J. Water Policy Comm.
Rahway.....	Union.....	20	6	.....	.....	.....	.....	.....	.....	3.10	.....	1.20	25	0	9	9	10	11	nw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	28	54.7	+6.3	85	13†	29	23	3.63	+0.26	1.97	25	0	9	13	9	8	nw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	22	52.4	+4.3	85	14	23	7	3.79	+0.06	1.42	25-26	0	11	17	7	6	w.	N. J. Water Policy Comm.
Rutherford.....	Bergen.....	51	1	54.9	.....	85	13	31	23	3.23	.....	1.39	24-25	0	11	10	6	14	nw.	Harold Scott.
Sandy Hook.....	Monmouth.....	15	47	53.8	+5.5	80	14	36	6	1.97	-1.65	0.70	25	0	10	.....	.....	.....	.....	U. S. Coast Guard.
Somerville, 2 mi. N.....	Somerset.....	385	62	56.4	+7.0	84	13	27	6†	4.20	-0.67	1.34	25	0	11	12	9	9	w.	Joseph Starkman.
Sussex.....	Sussex.....	450	50	55.4	+7.0	90	13	25	23	3.73	+0.25	1.31	5	T.	12	9	7	14	sw.	Marshall Hunt.
Toms River.....	Ocean.....	33	24	.....	.....	.....	.....	.....	.....	2.12	-1.77	0.60	26	0	12	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	73	56.0	+6.2	84	14	34	6	2.42	-0.52	0.75	25	0	9	8	8	14	nw.	U. S. Weather Bureau.
Trenton No. 2.....	.....do.....	105	15	56.1	+5.5	86	14	32	23	3.25	-0.39	0.97	25	0	9	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	52	55.0	+5.6	82	14	30	6†	2.69	-0.39	1.00	25	0	11	15	4	11	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	65	.....	.....	.....	.....	.....	.....	2.78	-0.66	1.23	17	0	9	10	14	6	se.	Robert Jones.
Westfield.....	Union.....	145	6	.....	.....	.....	.....	.....	.....	3.59	.....	0.90	26	0	10	14	4	12	s.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	27	.....	.....	.....	.....	.....	.....	3.87	+0.20	1.73	25	0	10	.....	.....	.....	.....	Hackensack Water Co.
Woodstown.....	Salem.....	16	10	.....	.....	.....	.....	.....	.....	2.73	.....	0.90	18	0	7	17	6	7	nw.	Geo. S. Keen.
New York, N. Y.....	.....	10	75	54.8	+5.4	81	14	36	6	3.02	-0.21	1.35	25	0	10	11	8	11	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	75	56.4	+5.8	84	14	33	6	2.89	-0.16	0.89	17	0	10	8	7	15	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	54.5	+4.9	90	13	20	23	3.28	-0.33	1.97	25	T.	11	12	8	10	nw.	.....

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for April 1945

Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic City ¹	Coast	.27	.03			.03						.01				T.	T.	.14	.34	.14			.01	.36			T.	1.01	.45					c	2.79
Barnegat City ⁴	do.	.12				.10											.07	.43	.01			.10	.20			.01	.09	1.43						2.56	
Belleplain	Tuckahoe	.12	.18			.05										.04		.23	.12	1.30			.08											3.31	
Belmar ²	Coast	.08	T.	T.		.07										.04	T.	.08	.31	.08			.19				T.	1.01	.46	T.	T.			2.35	
Belvidere	Delaware	.45	.25	T.	1.04					T.	T.	.01	.02	T.	T.	.10		T.	.08	.33			.15			T.	1.48	.10	.25					4.23	
Berlin	Mullica	.10				.10											T.	.40				.20	.35			T.	1.48	.10	.25					2.15	
Boonton ³	Passaic	.46	.05	.17		.45	.02										T.	T.	.12	.72			.20	.35			.40	.60						3.62	
Bridgeton	Delaware	.05				.15										.04		.29	.26	1.04		.10	.04			T.	.62	.22	.44		T.		3.25		
Brooklawn	do.	.17	.13			.11											.20	T.	.76								.76	T.	.40				2.53		
Burlington	do.	.18	.13	.06		.16										.52		.13		.63							.62	T.	.32				2.93		
Canoe Brook ³	Passaic	.21	.11	.28		.32	.12						.01				.14	T.	.19	.99			.18				.62		.29	.23				4.23	
Cape May ¹	Coast	.37	.16	T.	.11								.01	T.	T.	.15	.02	.02	.18	.39		.02	T.				.22	1.29	.23				2.53		
Charlotteburg	Passaic	.32	.16	.13		.86											.07	.16	.77				.10	.03		.06	.50	.54					4.22		
Chatham ³	do.	.14	.06	.27		.36	.14						.01	T.		.14	T.	.13	1.13				.12			T.	.22	1.33	.23				4.28		
Chatsworth	Coast	.08				.18										.05				.85		.26					.57	.35					2.34		
Clayton	Delaware	.26				.23												.25	.20	1.14						T.	.98	.68					3.74		
Clinton	Raritan	.33	.04	.13	1.26											.02		.01	.09	.20			.16				.88	.33	.27				4.08		
Culvers Lake	do.	.25	.20		1.22											.08		.12	1.14				.12				1.58	.10					3.63		
Dover	Passaic	.26		.03	.82											.50		.02	.16	.53		.20	.20				.96	.31	.28		.01		3.83		
Elizabeth	Coast	.04	.15	.22	T.	.44						.01			.14		.02	.04	.74			.25				T.	.67	.69	.28				3.69		
Flemington	Raritan	.21	.26	T.	.39										.20	T.	.04	.55	.05			.03	.27			T.	.44	.32					2.35		
Fort Dix, A.A.B. ²	Delaware	.06	.05	T.	.34							T.	T.		.20	T.	.04	.13	.40			.01	.17	.07		T.	.66	.15	.30			.02	2.66		
Freehold	Raritan	.14		T.	.15										.08		.13	.40	.88	.03	.08	.04	.38				.68		.57				4.41		
Hammonton	Mullica	.12		.03									1.12		.08		.40	.88				T.	.20				.59	.25	.31				2.42		
Hightstown	Raritan	.12		T.	.06										.32		.08	.05	.44			T.	.20			T.	.59	.25	.31				2.42		
Indian Mills	Mullica	.08	.01		.16										.12		.07	.33	.62		.05	.30				T.	.49	.28	T.				2.51		
Jersey City ²	Coast	.15	.04	.01											.10		.06	.32	.20			.10					1.25	.15					2.38		
Lakewood	Metedeconk	.18	.06		.12										.53		.04	.12	.46		.22						.68	.14	.43				2.98		
Lambertville	Delaware	.25	.28	.05		.41											.06	.08	1.19		T.	.20			T.	1.10	.28	.28					4.18		
Layton	do.	.35	.35		1.03												.05	.13	.12			.10					.76	.55	.13				3.57		
Little Falls ³	Passaic	.36	.17	.10		.48	.01								.01	.01	.21	.82				.06					.20	1.27	.15				3.85		
Long Branch ²	Coast	.08			.12						.01	.03	T.		.33		.19	.31	.07		.02	.21					.92	.40	.01				2.70		
Long Valley ³	Raritan	.37		.40		.63	.25								.15		.18	.96				.15					1.55	.30					4.94		
Marlton	Delaware	.19	.07		.19										.14		T.	.14	.51		.27						.61		.41				2.53		
Mays Landing	Gt. Egg Harbor	.05	.05	.14	T.	.02						.01					.11	.02	.84	T.	.14	.08					.56		.83				2.85		
Millville ²	Maurice	.04	.08		.11												.26	.84	.25		.38	.11			.05	.39	.38						2.89		
Moorestown ³	Delaware	.12	.03	.18		.04	.09									.09	.10	.03	.60	T.		T.	.19				.29	.90	.20				2.84		
Morris Plains	Passaic	.28	.15	.18	T.	.70									.09	T.	.90					T.	1.04				1.32	.37	.26				5.29		
Newark ¹	Coast	.35		T.	.38	T.						T.	.01	.01		.19		.08	.50	T.		T.	.12			T.	1.05	.20	T.				2.89		
New Brunswick	Raritan	.13	.12	.05	T.	.30									.13	T.	T.	.05	.45		T.	.11	.05				.67	.56	.37				2.99		
New Milford ²	Hackensack	.23			.49										.02		.10	.58	.06		.03						1.41	.13			.03		3.08		
Newton	Delaware	.48	.11	.02	1.14	.03											.13	.06	.38		.02	.15				*	.97	.01	.37				3.91		
Orange ²	Passaic	*	.36	.22		.56											*	*	.91		*	.04				*	*	*	1.88				3.97		
Paterson ²	do.	.30		T.	.50										.02		.18	.95	.06		T.	.05			T.	1.17	.11						3.34		
Pemberton	Delaware	.12	.16	.08		.09									.12		.04	.09	.66	T.	T.	.03	.13				.35	.12	.26				2.24		
Phillipsburg	do.	.42	.12	T.	.77										.24		.07	.48	T.		T.	.15				T.	1.02	.30	.04				3.61		
Plainfield	Raritan	.26	.20		.43										.54		.07	.09	.64		T.	.20				T.	1.56	.26					4.25		
Plainsboro	do.	.16	.04		.21										.29		*	.15	.55			.15					.70	.45	.46				3.16		
Pleasantville ³	Coast	.05	.12	.11		.07											T.	.09	1.03			.04	.32				.25	.49	.52				3.19		
Rahway ¹	Rahway	.16		T.	.50										.47	T.	.07	.37	.13			.18			.02	1.20							T.	3.10	
Ridgefield	Hackensack	T.	.20		T.	.64									.07		.02	.02	.54		T.	.07					1.97	T.	.10				T.	3.63	
Runyon	Coast	.12	.26		.23										.20		.06	.10	.45		.25						.25	1.42	.45				3.79		
Rutherford	Passaic	.28	.06	T.	.44								T.	T.		.04		.11	.28	.45		T.	.07				T.	1.39	.10	.01			T.	3.23	
Sandy Hook ²	Coast	.10			T.	.08									.12	T.	.19	.28	.02		T.	.20				T.	.70	.27	T.				1.97		
Somerville	Raritan	.25	.21	T.	.37										.12		.04	.08	1.30		T.	.20	T.				1.34	.06	.23				4.20		
Sussex	Hudson</																																		

Daily Temperatures for April 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	65	55	78	57	57	54	53	54	59	54	56	63	60	75	58	52	59	68	59	55	58	59	51	59	61	64	58	61	55	59	59.2
	Minimum....	48	48	53	46	39	35	44	42	46	45	47	50	50	56	50	49	50	52	44	49	45	40	39	50	52	54	44	42	41	49	46.6
Barnegat City†.....	Maximum...	68	58	74	49	55	55	51	55	56	53	55	59	63	79	56	51	61	66	57	58	59	57	51	56	59	64	55	58	56	56	58.3
	Minimum....	48	48	45	45	39	34	39	39	43	46	46	49	52	55	49	49	50	51	43	47	42	40	37	46	50	48	47	44	40	47	45.3
Belleplaine.....	Maximum...	77	74	77	75	62	57	58	68	71	68	68	77	83	84	76	53	74	68	69	62	69	65	60	67	69	72	58	60	62	64	68.2
	Minimum....	45	53	66	48	43	29	33	36	43	45	49	55	51	58	52	46	50	50	40	42	40	36	33	44	52	49	47	41	39	42	45.2
Belvidere.....	Maximum...	73	69	73	64	55	60	64	72	78	82	72	74	87	82	68	60	73	68	60	58	55	56	64	70	62	75	60	67	60	65	67.2
	Minimum....	43	52	55	44	41	31	30	33	37	38	64	55	52	57	45	48	48	43	37	35	40	36	30	45	51	49	45	41	32	46	43.4
Boonton/.	Maximum...	71	64	70	58	55	56	61	69	74	75	70	76	81	80	67	53	72	65	57	58	59	53	63	66	60	72	54	53	61	62	64.5
	Minimum....	48	50	50	44	44	35	28	30	34	26	41	45	48	49	46	44	45	46	41	31	37	38	28	38	44	48	47	40	37	45	40.9
Bridgeton.....	Maximum...	78	78	75	69	64	59	66	76	78	78	77	82	86	87	68	55	75	69	62	63	68	62	64	70	64	74	63	59	64	64	69.9
	Minimum....	45	53	66	48	43	29	33	36	43	45	49	55	51	58	52	46	50	50	40	42	40	36	33	44	52	49	47	41	39	42	45.2
Burlington.....	Maximum...	79	76	75	74	66	56	64	72	84	73	73	78	83	85	67	62	66	68	66	63	64	60	61	64	66	76	63	62	61	65	69.1
	Minimum....	55	67	59	45	43	36	33	33	62	42	49	55	54	58	49	47	48	55	42	39	44	39	42	44	53	51	51	46	37	48	47.5
Canoe Brook/.	Maximum...	71	71	73	57	50	56	59	70	74	73	64	71	78	80	64	53	70	67	58	58	57	55	62	67	60	73	48	56	61	62	63.9
	Minimum....	41	50	51	42	43	26	23	27	34	31	41	51	47	51	46	44	46	40	31	30	32	36	23	37	48	46	45	40	29	40	39.0
Cape May*.....	Maximum...	66	56	72	57	58	52	54	61	62	56	62	64	61	75	58	53	61	66	56	56	64	55	51	58	62	64	58	56	53	59	59.5
	Minimum....	50	49	54	47	44	38	41	44	48	46	50	54	50	54	50	49	52	53	46	49	50	44	37	50	52	54	48	43	42	46	47.5
Charlotteburg.....	Maximum...	73	72	69	68	58	53	61	70	72	75	73	74	84	82	75	65	71	70	61	56	56	62	62	64	64	72	54	51	60	63	66.3
	Minimum....	43	49	56	40	48	29	22	26	29	29	35	52	45	48	41	41	48	41	35	28	38	34	24	35	45	52	43	37	36	42	39.0
Chatsworth.....	Maximum...	74	75	72	68	62	57	60	72	70	73	75	76	84	88	67	61	75	69	66	62	64	57	64	69	64	74	61	59	61	60	68.0
	Minimum....	46	49	60	45	42	27	24	28	40	38	48	53	50	54	50	46	49	48	40	39	39	36	26	41	56	46	42	34	40	42	42.7
Clayton.....	Maximum...	79	75	74	75	64	57	59	70	73	74	74	78	82	83	74	73	75	69	69	63	61	62	65	71	67	75	65	58	66	68	69.9
	Minimum....	42	59	55	47	43	29	38	32	33	43	49	54	52	57	45	38	49	49	36	31	40	35	30	41	53	41	46	39	36	42	42.5
Dover.....	Maximum...	72	67	75	53	56	56	59	68	72	72	70	73	81	80	64	51	71	68	55	56	55	52	57	65	61	72	55	53	58	63	63.7
	Minimum....	44	56	52	42	36	30	27	30	34	35	52	54	49	59	44	48	46	44	35	32	39	35	29	41	48	48	42	39	37	41	41.7
Elizabeth.....	Maximum...	76	73	78	75	63	61	62	72	75	74	66	78	85	85	66	58	77	70	64	62	60	58	65	66	60	72	57	61	64	64	68.1
	Minimum....	46	52	54	44	42	27	29	32	38	39	48	53	52	56	47	47	45	34	34	39	37	30	41	50	47	46	41	33	46	42	42.5
Flemington.....	Maximum...	76	74	76	68	59	63	65	75	77	77	76	78	85	85	72	71	75	71	69	61	56	58	65	71	67	74	64	62	63	70	70.1
	Minimum....	45	51	57	43	43	30	29	31	37	39	47	55	50	56	47	47	48	45	37	33	41	36	28	44	50	51	45	42	37	47	43.0
Fort Dix, A. A. B.*.....	Maximum...	71	75	73	62	63	55	61	71	72	69	72	79	82	84	64	53	75	66	56	63	63	55	60	70	64	73	54	58	60	61	66.1
	Minimum....	42	51	55	42	42	30	31	32	39	41	47	53	52	56	47	52	48	40	40	41	36	32	41	51	48	44	41	38	43	43	43.4
Freehold.....	Maximum...	73	73	73	61	63	57	60	70	69	69	77	83	84	63	57	75	68	65	60	60	54	62	68	66	72	59	58	61	61	61	66.4
	Minimum....	42	50	56	40	40	28	30	30	36	36	46	51	50	57	47	44	45	43	36	36	38	34	28	41	48	48	43	40	32	41	41.2
Hammonton.....	Maximum...	44	51	58	46	42	30	27	34	42	39	48	45	53	59	50	47	49	45	38	38	40	35	27	42	40	44	39	35	43	43	42.3
	Minimum....	76	75	74	64	63	57	63	73	71	70	70	79	81	83	66	53	74	65	59	63	60	55	61	70	65	72	53	57	61	63	66.5
Hightstown.....	Maximum...	45	51	57	42	41	29	31	30	38	40	48	54	54	57	47	46	47	45	36	36	40	36	29	43	50	49	45	42	34	41	42.8
	Minimum....	75	76	74	65	64	57	62	73	76	71	77	79	83	87	71	53	75	68	60	64	66	58	64	71	65	75	55	61	66	64	68.5
Indian Mills.....	Maximum...	45	52	59	47	43	28	27	27	39	39	48	55	51	59	50	47	50	46	36	38	40	37	26	41	54	50	46	41	33	45	43.3
	Minimum....	70	60	73	58	57	55	53	63	68	68	60	66	74	82	58	50	73	66	56	58	56	54	54	58	58	64	51	53	59	58	61.1
Jersey City*.....	Maximum...	48	53	58	42	38	34	40	40	44	46	48	54	56	56	49	47	47	48	42	42	41	38	34	45	50	48	44	40	39	48	45.3
	Minimum....	75	75	77	69	61	58	59	67	69	63	62	74	85	86	61	53	75	70	64	61	62	58	60	65	60	68	56	59	61	59	65.7
Lakewood.....	Maximum...	47	52	58	45	43	30	32	32	40	45	47	51	53	58	50	47	48	47	40	37	42	37	29	44	52	50	45	43	35	46	44.2
	Minimum....	74	72	74	77	60	59	64	72	77	78	70	76	84	83	69	63	74	67	63	61	58	57	62	71	64	71	60	60	62	66	68.4
Lambertville.....	Maximum...	46	46	57	43	41	31	30	31	31	36	37	55	51	55	46	41	48	45	37	34	34	36	29	39	50	50	44	42	33	40	41.4
	Minimum....	74	69	72	58	53	55	61	70	75	78	78	76	83	87	64	52	68	66	63	57	55	52	63	67	74	65	52	63	60	60	65.8
Layton.....	Maximum...	40	54	50	37	42	25	21	26	30	30	39	48	48	55	40	41	42	36	30	27	32	35	20	36	49	45	44	48	39	40	38.3
	Minimum....	73	67	74	58	55	68	69	71	75	74	69	78	85	82	67	60	73	68	58	60	58	57	64	65	68	73	53	60	62	63	66.6
Little Falls/.	Maximum...	49	52	53	44	44	34	30	32	36	36	46	51	51	57	48	45	47	47	37	35	39	38	29	40	49	50	46	41	36	48	43.1
	Minimum....	74	66	75	55	61	56	55	62	65	61	66	78	85	85	59	51	70	68	58	61	60	56	55	60	64	64	54	59	61	59	62.6
Long Branch*.....	Maximum...	46	53	56	43	38	31	34																								

JUL 27 1945

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. L

MAY 1945.

No. 5

GENERAL SUMMARY.

This was the coolest May of the past ten years though the State temperature average was only 2° below normal. As a rule, readings were above 80° on only three days; these were the 15th, 17th, and 22d. During the period, 1st to 12th, there was frost on most mornings in the cranberry bogs and in some exposed upland sections. There was also frost on a few mornings during the latter part of the month. From the 13th to 23d, it was comparatively mild.

This was the wettest month and in fact, the first month since November, 1944 with as much as normal precipitation. Rainfall over the State averaged 32 percent more than normal. It was much the heaviest in the northernmost counties of the State and generally speaking, diminished toward the south. Several stations in the north had more than 6 inches of rain while a few southern stations had only about 2 inches. There was little lack of soil moisture, however, in any locality. There was an average of 14 days with measurable rainfall and amounts of .01 inch or more fell somewhere in the State on 28 days. The cool, cloudy, and wet weather interfered with the planting of corn and much remained to be planted in June. Cool weather crops did well, however; the New Jersey potato crop thrived, and pastures and meadows were in excellent condition. There was no serious wind damage though strong winds were experienced on the 10th and 11th, both on the coast and in the interior of the State.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 42 stations, was 58.4°, which was 2.0° below normal. The highest temperature was 90° at three stations on the 22d, and the lowest, 29°, at Long Valley on the 12th. The highest monthly average temperature was 62.6° at Burlington, and the lowest, 54.2° at Long Valley.

The temperature departure from the normal for the year 1945 to date, for the State, is +2.0°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 64 stations, was 4.78 inches, which was 1.16 inches above normal. The greatest monthly precipitation was 8.74 inches at Charlotteburg, and the least, 1.66 inches at Barnegat City. The greatest amount of precipitation in any 24 consecutive hours was 1.86 inches at Sandy Hook on the 18th.

The average for the Highlands was 6.72 inches; for the Red Sandstone Plain, 5.45 inches; for the Southern Interior, 3.56 inches; and for the Sea Coast, 3.89 inches.

The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, +3.29 inches; Red Sandstone Plain, -0.42 inch; Southern Interior, -3.75 inches; Sea Coast, -4.03 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 1, 3, 4, 5, 6, 10, 13, 14, 15, 16, 17, 18, 27.

HAIL: 5, 10, 17, 22.

THUNDERSTORMS: 1, 2, 3, 4, 5, 10, 11, 13, 15, 16, 17, 18, 19, 21, 22, 27, 28, 29, 30.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.27	25	29.43	10	16.9	42	w.	11	76	67	72	68	209
Long Branch.....	30.26	27	29.35	10	13.5	52	nw.	11	73	54	66	60	217
Trenton.....	30.24	27	29.39	10	10.0	46	w.	10	75	53	63	59	182

COMPARATIVE DATA FOR MAY.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	57.3	90	29	2.74	0	.....	.....	.....	.....
1886.....	58.8	87	36	6.07	0	.....	.....	.....	.....
1887.....	63.3	94	35	1.37	0	6	.....	.....	.....
1888.....	58.6	90	26	4.92	0	16	.....	.....	.....
1889.....	62.3	94	32	4.09	0	12	.....	.....	.....
1890.....	60.7	87	33	4.24	0	12	.....	.....	.....
1891.....	59.5	93	28	2.97	0	9	9	11	11
1892.....	60.1	90	30	5.04	0	13	8	13	10
1893.....	59.4	95	29	4.07	0	10	13	8	10
1894.....	61.4	93	30	7.72	0	13	11	9	11
1895.....	60.9	102	28	2.85	0	8	12	12	7
1896.....	65.3	98	29	3.21	0	10	10	12	9
1897.....	60.6	87	29	5.68	0	12	11	12	8
1898.....	58.5	93	29	7.00	0	18	8	8	15
1899.....	61.1	94	29	1.92	0	9	12	12	7
1900.....	60.9	98	26	4.71	0	10	13	7	11
1901.....	58.6	90	29	5.60	0	16	9	9	13
1902.....	60.3	95	29	2.04	0	7	15	11	5
1903.....	62.7	98	21	0.59	0	4	16	10	5
1904.....	62.8	97	31	2.60	0	8	17	9	5
1905.....	61.4	89	22	1.71	0	8	12	11	8
1906.....	61.0	94	24	4.21	0	10	16	8	7
1907.....	55.4	91	22	5.05	0	12	12	9	10
1908.....	61.6	95	29	7.10	0	13	9	10	12
1909.....	60.0	91	27	2.30	0	9	10	11	10
1910.....	60.0	94	27	2.54	0	12	10	10	11
1911.....	64.5	99	22	1.37	0	7	14	11	6
1912.....	62.0	92	31	4.09	0	11	11	11	9
1913.....	60.3	94	25	3.45	0	9	15	7	9
1914.....	63.1	98	30	2.93	0	10	14	9	7
1915.....	58.1	88	30	3.82	0	13	13	7	11
1916.....	61.1	90	33	3.48	0	12	12	11	8
1917.....	54.0	90	25	3.83	0	11	10	10	11
1918.....	64.6	93	31	4.94	0	12	14	10	7
1919.....	60.9	95	31	4.98	0	12	14	6	11
1920.....	57.4	89	26	3.00	0	10	15	8	8
1921.....	60.2	96	32	4.17	0	10	14	7	10
1922.....	63.0	90	23	3.84	0	8	18	6	7
1923.....	59.1	90	25	1.66	0	6	20	6	5
1924.....	56.8	87	25	5.69	0	17	12	7	12
1925.....	57.7	99	23	2.86	0	8	13	11	7
1926.....	59.1	90	26	2.58	0	9	18	9	4
1927.....	58.1	88	30	3.65	0	13	9	10	12
1928.....	58.0	93	27	2.23	0	12	12	9	10
1929.....	59.9	95	26	3.49	0	13	13	8	10
1930.....	62.7	98	31	2.75	0	9	17	7	7
1931.....	60.4	97	21	3.73	0	12	14	6	11
1932.....	60.5	94	29	2.98	0	8	16	8	7
1933.....	63.2	93	32	4.84	0	13	11	8	12
1934.....	62.3	98	28	4.63	0	11	17	6	8
1935.....	57.8	95	27	1.71	0	9	15	7	9
1936.....	63.1	97	28	2.78	0	7	20	7	4
1937.....	62.5	96	28	3.12	0	10	17	9	5
1938.....	59.2	89	26	3.52	0	12	10	9	12
1939.....	63.3	99	25	1.43	0	6	16	8	7
1940.....	59.7	92	28	6.29	0	15	8	9	14
1941.....	62.6	99	23	1.86	0	9	17	9	5
1942.....	64.3	97	25	2.41	0	7	14	9	8
1943.....	61.7	93	24	4.92	0	12	11	9	11
1944.....	65.3	94	28	1.67	0	8	14	9	8
1945.....	58.4	90	29	4.78	0	14	13	7	11
Period.....	60.4	102	21	3.62	0	11	13	9	9

Climatological Data for May 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	72	58.6	+0.5	80	29	41	1	3.09	+0.04	1.08	10	0	12	9	9	13	s.	U. S. Weather Bureau.
Barnegat City	Ocean	36	6	56.6	.....	77	23	39	11	1.66	.....	0.53	3	0	6	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain	Cape May	49	51	.....	.....	86	16†	.....	.....	2.13	-1.19	0.52	3	0	10	19	4	8	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	4	.....	.....	.....	.....	.....	.....	4.71	.....	1.30	19	0	13	.....	.....	.....	.....	City Water Dept.
Belvidere	Warren	289	53	58.6	-2.2	88	22	37	2†	5.14	+1.46	1.13	10	0	18	9	6	16	.....	Miss C. S. Hixson.
Berlin	Camden	70	4	.....	.....	.....	.....	.....	.....	3.48	.....	1.30	10	0	14	15	8	.....	.....	Samuel H. McCulley.
Boonton	Morris	280	55	56.4	-2.4	84	23	34	3†	6.92	+3.13	1.30	11	0	18	14	5	12	sw.	John Kline.
Bridgeton	Cumberland	30	62	61.7	-1.7	88	16†	39	2	3.12	-0.38	0.88	10	0	12	17	3	11	nw.	Bennett K. Matlack.
Brooklawn	Camden	30	4	.....	.....	.....	.....	.....	.....	3.95	.....	0.82	10	0	10	.....	.....	.....	.....	C. D. Scott.
Burlington	Burlington	12	559	62.6	-0.2	90	22	40	1	4.61	+0.81	0.90	10	0	15	14	8	9	w.	Public Service E. & G. Co.
Canoe Brook†	Essex	180	15	55.1	-3.6	85	22	32	3†	6.11	+2.60	1.64	10	0	16	13	9	9	w.	N. J. Water Policy Comm.
Cape May	Cape May	17	57	58.8	+0.2	74	22†	43	1†	1.97	-0.91	0.57	10	0	12	7	11	13	s.	Naval Air Station.
Charlotteburg†	Passaic	760	53	56.9	-0.8	84	22†	30	3†	8.74	+4.82	1.61	17-18	0	20	8	6	17	w.	Newark Water Dept.
Chatham	Morris	185	41	.....	.....	.....	.....	.....	.....	6.06	+2.34	1.62	10-11	0	16	13	8	10	.....	Edward P. Molitor.
Chatsworth	Burlington	90	5	59.3	.....	89	22	35	12	3.73	.....	1.19	10	0	8	14	8	9	w.	Alfred L. Stevenson.
Clayton	Gloucester	120	32	60.0	-1.6	87	15	36	13	3.68	-0.49	1.35	10	0	9	10	5	16	w.	Worthy Hitt.
Clinton	Hunterdon	300	2	.....	.....	.....	.....	.....	.....	5.12	.....	1.13	10	0	17	10	2	19	sw.	L. W. Klockner.
Culvers Lake†	Sussex	760	44	.....	.....	.....	.....	.....	.....	6.35	+2.94	1.08	10	0	17	.....	.....	.....	.....	L. S. Depue.
Dover	Morris	600	61	.....	.....	82	22	31	1	7.60	+3.81	1.62	1	0	14	4	10	17	.....	William C. Harris.
Elizabeth	Union	34	66	59.1	-2.7	89	22	36	3†	6.10	+2.37	1.25	10	0	17	16	5	10	nw.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	140	559	60.0	-1.4	87	22	37	3†	4.83	+1.16	0.92	17-18	0	16	14	6	11	nw.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120	1	58.7	.....	88	22	38	2†	2.92	.....	0.84	10	0	15	.....	.....	.....	.....	A. A. B. Weather Station.
Freehold	Monmouth	194	54†	59.0	-3.0	88	22	37	3†	4.80	+1.29	0.95	10	0	13	20	3	8	se.	Moreau Plant Co.
Hammonton	Atlantic	95	389	.....	.....	.....	.....	.....	.....	2.12	-1.73	0.56	10-11	0	12	14	8	2	sw.	J. G. Wilson.
Hightstown	Mercer	110	52	58.5	-2.4	87	22	37	3†	3.72	0.00	1.15	10	0	15	12	12	7	sw.	James R. Pickering
Indian Mills†, 2 mi. W	Burlington	100	56	59.8	-2.0	89	22	36	6	2.88	-0.37	0.91	10	0	15	13	12	6	s.	Edward Entwistle.
Jersey City	Hudson	81	47	57.0	-4.7	82	22	40	11	4.98	+1.63	1.05	10	0	14	16	2	13	sw.	J. C. Water Dept.
Lakewood	Ocean	54	41	59.5	-0.9	89	22	35	3	5.62	+2.29	1.37	3	0	16	8	9	14	sw.	R. W. Holman.
Lambertville	Hunterdon	75	58	58.7	-2.3	86	22	36	3	4.62	+0.72	1.18	10	0	13	16	3	12	sw.	Mabel Wollaston.
Layton†, 3 miles NW.	Sussex	480	44	55.0	-2.7	84	22	30	25	7.13	+3.83	1.42	10	0	18	9	3	19	s.	A. M. Depue.
Little Falls	Passaic	157	42	58.4	-1.9	85	15†	35	3	6.33	+2.52	1.38	10	0	18	8	13	10	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	37	57.8	-0.7	84	22	37	12	4.71	+1.47	1.22	3†	.....	14	13	6	12	s.	Storm Warn. Display Sta.
Long Valley	Morris	660	15	54.2	-5.0	84	22	29	12	7.01	+3.31	1.46	18-19	0	16	15	9	7	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	4	.....	.....	.....	.....	.....	.....	3.73	.....	1.07	10	0	13	14	7	10	nw.	David Griscom.
Mays Landing	Atlantic	50	1	.....	.....	.....	.....	.....	.....	2.12	.....	0.49	3	0	13	14	9	8	sw.	Elmer Earle.
Millville	Cumberland	60	5	.....	.....	.....	.....	.....	.....	2.69	.....	1.26	10	0	8	15	8	8	.....	Paul Ritchie.
Moorestown	Burlington	62	82	58.6	-2.7	85	22	39	1†	4.36	+0.58	1.11	10	0	13	12	6	13	nw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	500	4	.....	.....	.....	.....	.....	.....	6.49	.....	1.72	17-18	0	13	16	6	9	.....	James C. Long.
Newark	Essex	10	91	58.8	-2.4	90	22	40	3	5.53	+1.61	1.39	10	0	16	9	10	12	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	91	59.6	-0.9	87	22	38	3†	4.51	+0.72	1.33	10	0	16	16	6	9	sw.	N. J. Experiment Station.
New Milford†	Bergen	12	27	.....	.....	.....	.....	.....	.....	5.65	+2.32	1.44	10	0	14	.....	.....	.....	.....	Hackensack Water Co.
Newton	Sussex	769	62	56.1	-3.4	82	15	34	3†	7.58	+3.89	1.84	29	0	21	9	6	16	nw.	Irving J. Kern.
Orange†	Essex	140	5	.....	.....	.....	.....	.....	.....	5.82	.....	1.56	10	0	17	.....	.....	.....	.....	County Engineer.
Paterson	Passaic	95	74	57.4	-4.1	88	22	34	6	5.69	+1.53	1.28	10	0	13	9	9	13	.....	J. W. Cook.
Pemberton	Burlington	55	16	61.2	-1.8	89	22	39	2†	3.58	+0.43	0.91	10	0	16	17	7	7	sw.	Charles A. Doehlert.
Phillipsburg	Warren	182	562	58.2	-2.8	86	15	35	6	5.21	+1.62	1.06	10	0	14	12	8	11	.....	Town Engineer.
Plainfield	Union	120	57	57.8	-2.4	86	22	36	3	5.56	+1.75	1.68	10	0	14	7	13	11	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	4	.....	.....	.....	.....	.....	.....	4.27	.....	1.07	9	0	12	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville†	Atlantic	8	47	58.6	-0.4	80	29	35	1	3.13	+0.10	0.93	4	0	16	15	7	9	s.	N. J. Water Policy Comm.
Rahway	Union	20	6	.....	.....	.....	.....	.....	.....	4.29	.....	1.50	10	0	10	10	8	13	se.	Louis Fontenelli.
Ridgefield	Bergen	80	28	57.8	-2.1	87	22	37	3	6.43	+2.88	1.47	10	0	16	12	7	12	sw.	George P. Kirsten.
Runyon†	Middlesex	18	22	54.4	-5.1	80	16†	30	12	4.15	+0.56	1.15	10	0	14	16	8	7	w.	N. J. Water Policy Comm.
Rutherford	Bergen	51	1	57.8	.....	87	22	37	3	6.73	.....	1.57	10	0	20	8	5	18	nw.	Harold Scott.
Sandy Hook	Monmouth	15	47	57.6	-0.8	80	22	42	10	7.18	+3.46	1.86	18	0	14	.....	.....	.....	.....	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	62	59.3	-1.2	85	15	35	11	4.55	+0.90	1.14	17-18	0	18	9	12	10	w.	Joseph Starkman.
Sussex	Sussex	450	50	58.8	-0.9	90	22	33	3	5.72	+2.11	1.32	10	0	19	10	4	17	w.	Marshall Hunt.
Toms River	Ocean	33	24	.....	.....	.....	.....	.....	.....	4.68	+0.59	1.70	3	0	16	.....	.....	.....	.....	Robt. F. Snyder.
Trenton	Mercer	56	73	60.2	-0.9	86	22	40	1	4.14	+1.06	1.44	10	0	15	8	9	14	s.	U. S. Weather Bureau.
Trenton No. 2	do.	105	15	60.1	-1.7	88	22	39	3	4.71	+1.18	1.47	10	0	13	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton	Ocean	23	52	60.0	+0.1	80	22†	40	3†	3.17	-0.07	0.82	3	0	12	16	6	9	sw.	John H. Brown.
Vineland	Cumberland	110	65	.....	.....	.....	.....	.....	.....	2.82	-0.72	1.22	10	0	13	14	12	5	sw.	Robert Jones.
Westfield	Union	145	6	.....	.....	.....	.....	.....	.....	5.02	.....	1.68	10	0	12	11	8	12	s.	Town Engineer.
Woodcliff Lake†	Bergen	103	27	.....	.....	.....	.....	.....	.....	6.14	+2.73	1.30	10	0	14	.....	.....	.....	.....	Hackensack Water Co.
Woodstown	Salem	16	10	.....	.....	.....	.....	.....	.....	4.00	.....	1.00	10	0	8	18	6	7	sw.	Geo. S. Keen.
New York, N. Y.	.....	10	75	58.9	-1.7	82	22	42	11	5.70	+2.46	1.80	3-4	0	13	9	11	11	s.	U. S. Weather Bureau.
Philadelphia, Pa.	.....	10	75	60.2	-1.9	86	22	39	2	3.85	+0.59	0.95	10	0	12	6	13	12	sw.	U. S. Weather Bureau.
For the State	.....	.....	.....	58.4	-2.0	90	22	29	12	4.78	+1.16	1.86	18	0	14	13	20	11	sw.	.....

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for May 1945

Stations	Drainage Basin	Day of month																															Total			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Atlantic City ¹	Coast	.19			.73	.18			T.			.17								.10	.13													3.09		
Barnegat City ¹	do.	.21	T.		.53					.18		.38								.29				T.										1.66		
Belleplain	Tuckahoe	.06			.52	.08				.32		.45	T.							.11	.07													2.13		
Belmar ²	Coast	.22	T.	1.24	.16	.03	T.			.07		.68			.02	T.			T.	.06	.52	1.30			T.	.05					.09	.27	T.		4.71	
Belvidere	Delaware	.50			.45	.25	.35	.05		.35		1.13			.32			.19	.20	.23	.03			.02	.18						.42	.37	.09	.01	5.14	
Berlin	Mullica	.30			.55	.05	.05	.05		.20		1.30			.10					.40	.12				.20						.06	.08	.02		3.44	
Boonton ³	Passaic	.04	.92	.12	.58	.51	.02	T.			.31	T.	1.30			.02	.07	T.	.01	T.	.67	.86	.09			.04					.16	.33	.87		6.92	
Bridgeton	Delaware	.23			.20			.11		.35		.88	.15							.16	.03									.14	.09	.30	.48	3.12		
Brooklawn	do.	T.	T.		.26	.08				.53		.82	.26							.68	.08	.79									.32			3.95		
Burlington	do.	.08	.80	.47				.03		.48		.90	.20			.14				.03	.65	T.			.34	T.				.05	.19	.02	.23		4.61	
Canoe Brook ³	Passaic		1.28	.04	.92	.46	.02	T.			.30		1.64			T.	.07			.05	.17	.32	.06			.07					.20	.22	.29		6.11	
Cape May ²	Coast	.09			.45	.09		T.	.01		.10		.57							.39	T.				.10					.02	.07	.03		1.97		
Charlotteburg	Passaic	.91	.33	.26	1.21	.32	.02			.43		.60	.50			.04	.07		.18	.36	1.61	.18				.28					.41	.16	.83	.04	8.74	
Chatham ³	do.		1.27	.02	.69	.43		T.			.34		1.62			.01	.08			.02	.13	.47	.08			.09					.17	.25	.39		6.06	
Chatsworth	Coast	.23	T.			.82				.22		1.19	T.			.08	T.					.52				.31						.22	.18		3.73	
Clayton	Delaware		.12			.44						1.35	.47						.40			.44			.06						.22	.18		3.68		
Clinton	Raritan	.25	.06	.57	.29	.05				.26		1.13	.01			.30			.32	.13	.92	.01			.18						.36	.19	.09		5.12	
Culvers Lake	do.	.72	.09	.50	.32	.18				.31		1.08	.08			.46			.13	.50	.14	.36			.22							.33		.92	.01	6.35
Dover	Passaic	1.62			.79	.23	.25			.39		1.20			.08				*	.17	1.50	.50			.07							.80			7.60	
Elizabeth	Coast	.80	.42	.44	1.00	.08	.01			.25		1.25	.40			.12	.06			T.	.17	.21				.08						.33	.05	.43		6.10
Flemington	Raritan	.17	.14	.42	.27	T.			T.		.33		.85	.58		.22			.08	.04	.92	.03			.18						.22	.28	.10		4.83	
Fort Dix, A.A.B. ²	Delaware	.17	.05	.48	.25	.04	.05			.20		.84	T.			.04				T.	.11	.14			.20	T.					.15	.06	.14		2.92	
Freehold	Raritan	.25	.18	.73	.82		.03			.17		.95				.14					.15	.73			.26						.23		.16		4.80	
Hammononton	Mullica		.06	.69	.11				.04			.18	.38							.15	.18										.12	T.		.04	.09	2.12
Hightstown	Raritan	.35	.12	.59	.13	.03	.02	T.	.33		1.15	.08	T.		.07					T.	.20	.08			.17						.23	T.	.17		3.72	
Indian Mills	Mullica	.14	.04	.50	.14	T.	.04		T.	.16		.91	.04			T.	.11				.14	.25			.23						T.	.08	.07	.03	2.88	
Jersey City ²	Coast	1.00	.02	.95	.73	.04				.22		1.05			.05					.02	.22	.27			.03						.30	.08			4.98	
Lakewood	Metedeconk	.42	.06	1.37	.75	.07	.04			.13		.65	.20			T.	.19				.10	1.12			.25						.12	.03	.12		5.62	
Lambertville	Delaware	.28			.77	.02	.15	T.		.43		1.18	T.			.25					.70	.02			.10	T.					.31	.17	.24		4.62	
Layton	do.	.77	.18	.47	.76	.16				.30		1.42	.02			.34			.05	.61	.25	.33			.14						.40	.06	.81	.06	7.13	
Little Falls ³	Passaic		.80	.01	.93	.83		.01			.26	.01	1.38			.02	.04			T.	.13	.44	.24		.07						.30	.13	.72	.01	6.33	
Long Branch ²	Coast	.19		1.22	.14	.07	.05			.11		.69			.03					.01	1.22	.68			.07	T.					.05	.18			4.71	
Long Valley ³	Raritan		.58		.63	.06	.03			.31		1.12			.15			.32	1.15	.50	.96	.05			.16						.24	.16	.59		7.01	
Marlton	Delaware	.20	.12	.45	.04					.32		1.07	.25			.16				.62	.09	.05			.11						.10	T.	.20		3.73	
Mays Landing	Gt. Egg Harbor	.03			.49	.10	T.	T.		.18		.34	.39	T.		.10				.01	.05				.10						.02	.03	.28		2.12	
Millville ²	Maurice	.16			.38	.15			.25		1.26									.05											.08	.36		2.69		
Moorestown ³	Delaware	.14	.08		.53	T.	.03			.43	T.	1.11			.02					.69	.22	T.			.13						.10	.14	.74		4.36	
Morris Plains	Passaic	.73	.27	.27				T.		.34		.73	T.			.10				T.	1.72	.07	T.			.06						.32	.09	.35		6.49
Newark ¹	Coast	1.05	.16	.85	.57	.01		T.		.17		1.39			.08				T.	.01	.08	.23	.21	T.	T.	.10						.33	.28	.01	T.	5.53
New Brunswick	Raritan	.24	.19	.37	.65	.31	.02			.31	T.	.97	.36			.02	.16			T.	.44	.10				.07					.16	T.	.14		4.51	
New Milford ²	Hackensack	.91			.49	.86	.02	.05		.36		1.44			.12					.16	.19	.19			.02						.38	.55			5.68	
Newton	Delaware	1.10	.20	.36	.21	.25	.04	.01		.46		1.10	.02			.22				.30	.36	.26	.20		.25	.01					.22	.21	1.84	.06	7.58	
Orange ²	Passaic	.59	.07	.98	.64	.01				.33		1.56			*	.06			.02	*	.30	.22			.07						*	.97			5.82	
Paterson ²	do.	.96	.03	.64	.81	T.	T.			.24		1.28			.02					.01	.27	.35			.03						.42	.63	T.		5.69	
Pemberton	Delaware	.11	.10	.40	.09	.18	.01			.20	T.	.76	.15			.04					.18	.32	T.			.22					.09	.05	.68	T.	3.58	
Phillipsburg	do.	.50	T.	.59	.29	.03	T.			.29		1.06	.03			.22			.62	.14	.12	.27	T.		.31	T.					.60	.17	T.		5.21	
Plainfield	Raritan	.61	.13	.63	.74	T.	T.		T.		.40		1.68	T.		.10				T.	.01	.37	.09			.33					.31	.03	.13		5.56	
Plainsboro	do.	.28	.13	.40		.15	.03			.55	1.07				.53						.75	.06			.12	T.					.20				4.27	
Pleasantville ³	Coast	.10	.15	T.	.93	.10				.20		.02	.83			.10					.07	.09	.16			.04					.08	.03	.30	.03	3.13	
Rahway ²	Rahway	.70			.78	.37	T.		T.	.20		1.50			.02				T.		.17	.10			.20						.25				4.29	
Ridgefield	Hackensack	1.00	.09	.75	.70	.04	.03			.22		1.05	.42			.09																				

Daily Temperatures for May 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Atlantic City*	Maximum	52	55	54	58	57	62	61	68	67	58	62	58	65	68	64	69	67	67	63	62	68	73	70	64	66	61	65	80	71	72	64.2		
	Minimum	41	43	47	51	49	48	48	55	51	47	42	52	55	55	57	58	59	59	50	48	55	59	56	49	53	58	60	60	62	54	53.0		
Baruegat City†	Maximum	49	55	51	55	56	61	62	63	65	60	60	60	59	67	64	64	68	70	66	63	65	70	77	63	64	65	60	65	76	69	66	63.2	
	Minimum	40	44	46	47	44	45	45	50	49	42	39	43	46	52	53	57	43	50	47	56	56	57	52	50	51	57	58	59	56	56	49.9		
Belleplaine	Maximum	60	58	57	67	67	64	75	78	66	66	60	69	76	77	83	86	86	80	65	71	75	85	77	72	75	74	70	76	77	72	72	72.1	
	Minimum	55	62	51	55	60	65	70	70	65	55	61	73	71	79	87	75	81	79	70	76	80	88	76	70	78	78	62	75	81	74	66	70.6	
Belvidere	Maximum	41	37	37	45	41	38	43	48	38	40	40	39	53	44	52	57	58	63	51	38	52	58	39	43	39	43	51	57	56	53	46	46.5	
	Minimum	48	60	52	55	63	62	72	63	63	52	69	60	71	75	83	75	81	75	57	75	74	84	69	68	71	76	59	72	78	68	62	67.8	
Boonton/	Maximum	39	41	34	43	42	36	34	42	48	41	41	40	39	49	46	55	53	54	56	40	40	52	57	46	39	44	44	52	57	55	42	45.0	
	Minimum	60	58	55	68	65	63	77	70	67	65	61	73	79	79	85	87	85	77	70	73	79	88	75	70	77	74	74	77	77	76	72	72.8	
Bridgeton	Maximum	41	39	41	50	40	43	43	56	44	47	40	43	55	50	57	61	62	62	55	46	53	61	54	47	45	50	55	58	61	58	52	50.6	
	Minimum	45	58	59	64	65	62	75	74	67	64	61	73	78	78	89	87	87	82	77	72	79	90	78	73	77	76	67	79	78	77	73.2		
Burlington	Maximum	40	43	41	49	45	45	50	53	51	49	58	45	62	49	74	60	54	60	52	44	52	75	59	49	45	47	55	58	61	48	42	52.0	
	Minimum	47	44	49	55	60	64	67	61	62	49	58	67	73	77	84	76	76	74	57	71	77	85	69	68	75	74	59	73	80	64	64	66.4	
Cape May*	Maximum	54	53	55	58	57	69	62	65	64	60	58	61	68	67	64	69	65	68	62	65	64	74	72	65	64	63	61	66	74	70	69	63.7	
	Minimum	43	43	48	52	48	48	50	56	55	53	44	51	55	54	56	57	59	59	53	50	56	58	61	55	54	57	59	58	61	60	58	53.9	
Charlotteburg	Maximum	61	56	55	54	61	62	72	72	63	62	56	70	70	76	83	80	78	77	76	73	73	84	84	65	74	76	74	70	76	77	65	70.2	
	Minimum	34	38	30	42	40	39	31	50	36	36	32	49	47	78	44	52	60	46	34	43	53	50	42	34	36	49	57	56	50	36	43.6		
Chatsworth	Maximum	56	58	55	67	65	60	76	71	67	58	60	72	79	79	88	84	85	77	74	70	76	89	70	68	74	75	70	74	80	76	71	71.7	
	Minimum	38	39	36	49	40	36	36	48	40	43	40	35	54	42	52	57	58	62	52	40	50	59	59	38	37	40	56	60	58	57	47	46.9	
Clayton	Maximum	63	60	59	55	67	61	76	75	70	74	66	63	68	78	87	83	79	78	74	72	78	86	75	73	77	76	74	78	72	77	72	72.6	
	Minimum	40	42	39	38	49	46	39	43	45	42	40	37	36	48	54	56	64	55	53	42	60	55	54	47	44	46	44	54	56	52	48	47.4	
Dover	Maximum	57	57	49	54	59	66	71	57	63	56	57	65	69	75	81	73	79	71	63	71	72	82	80	79	71	72	82	80	79	71	69	72.0	
	Minimum	31	37	35	44	41	34	37	42	37	38	37	35	52	47	57	56	52	61	48	39	51	60	60	60	60	60	60	60	60	60	60	60	60
Elizabeth	Maximum	57	62	56	58	62	66	70	62	66	62	64	72	74	78	87	81	82	80	63	77	78	89	78	77	80	79	71	72	82	77	69	72.0	
	Minimum	43	41	36	46	38	38	39	46	38	44	40	36	52	44	49	60	53	60	50	39	50	53	52	42	38	44	53	54	55	55	45	46.2	
Flemington	Maximum	64	61	57	57	64	67	77	68	68	60	65	72	77	80	85	77	86	80	72	78	79	87	74	74	79	77	68	77	84	78	66	72.8	
	Minimum	42	39	37	46	37	40	45	41	41	40	37	52	43	51	60	55	62	52	44	52	54	55	42	39	44	53	55	58	55	52	47.1		
Fort Dix, A. A. B.*	Maximum	48	57	50	64	62	62	73	68	63	60	59	71	75	76	85	77	85	75	65	70	88	71	66	75	75	74	67	77	70	68	69.5		
	Minimum	39	38	38	47	41	41	42	47	42	43	40	38	55	49	54	52	62	48	43	51	60	54	45	47	44	53	56	60	53	53	47.9		
Freehold	Maximum	57	60	54	66	64	64	74	72	64	62	60	71	78	78	86	80	84	78	75	72	77	88	68	75	77	68	74	80	77	65	72.0		
	Minimum	40	39	37	45	39	37	39	48	39	42	37	38	51	45	50	54	50	60	48	37	49	55	52	41	38	46	53	54	58	54	48	45.9	
Hammonton	Maximum	40	39	36	48	43	39	39	41	43	56	40	38	53	46	53	55	60	61	52	42	48	59	54	40	40	45	58	54	60	58	51	48.1	
	Minimum	54	62	51	62	64	63	74	65	62	58	60	70	75	77	85	75	85	77	70	72	77	87	71	68	75	77	63	75	78	69	66	69.9	
Hightstown	Maximum	40	40	37	47	41	39	40	49	41	42	40	37	51	47	51	54	52	62	50	40	51	57	54	41	39	45	54	56	59	55	50	47.1	
	Minimum	54	61	50	68	62	65	77	69	66	60	62	73	79	80	87	87	86	81	69	75	79	89	72	69	77	76	66	78	79	71	69	72.1	
Indian Mills	Maximum	39	38	38	50	42	36	41	51	40	44	41	37	55	43	53	59	56	62	53	39	50	61	51	38	38	41	56	58	60	58	48	47.6	
	Minimum	49	52	50	54	57	56	62	60	61	54	58	68	64	72	73	72	72	70	62	70	68	82	69	68	70	61	64	79	68	63	64.5		
Lakewood	Maximum	43	42	43	43	44	44	46	50	44	44	40	47	52	51	54	56	52	59	48	43	55	59	58	48	48	54	56	54	58	56	48	49.6	
	Minimum	56	59	53	60	64	64	75	72	65	62	62	73	75	76	85	77	83	77	71	72	75	89	79	69	73	77	68	73	78	74	68	71.1	
Lambertville	Maximum	42	41	35	48	41	37	41	50	41	45	41	36	54	48	49	55	53	62	51	41	51	60	52	43	40	47	56	57	60	58	51	47.9	
	Minimum	61	60	52	59	62	64	75	64	64	58	61	72	75	72	84	78	85	76	67	73	76	86	73	70	71	74	66	76	78	74	69	70.2	
Layton	Maximum	39	38	36	47	38	38	45	40	43	42	38	53	45	54	56	55	63	62	51	41	51	60	52	43	40	44	53	56	56	54	50	47.2	
	Minimum	55	58	55	51	56	58	72	65	62	56	57	69	63	75	82	76	81	76	65	73	75	84	68	67	76	70	64	73	76	67	62	67.3	
Little Falls/	Maximum	33	35	33	43	48	33	33	41	33	33	37	32	51	40	45	52	56	61	52	31	46	51	52	38	30	38	52	55	51	51	40	42.8	
	Minimum	52	61	53	54	62	63	70	64	65	50	62	72	71	78	85	75	81	78	70	77	78	85	71	70	75	78	62	75	81	70	65	69.9	
Long Branch*	Maximum	45	42	35	45	43	37	43	41	42	40	40	37	53	45	49	58	63	56	53	40	53	63	56	45	39	44	53	55	56	55	43	47.3	
	Minimum	49	58	50	59	62	60	66	64	64	59	61	69	72	72	78	68	74	73	60	71	72	84	73	69	69	73	62	70	80	71	67	67.1	
Long Valley/	Maximum	45	44	38	49	42	39	42	52	44	40	40	37	54	47	58	52	51	56	49	44	52	58	53	45	43	48	56	56	62	56	54	48.4	
	Minimum	47	58	50	55	61	64	72	60	63	48																							

CLIMATOLOGICAL DATA

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NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. L.

JUNE 1945.

No. 6

GENERAL SUMMARY.

The first ten days were much cooler than normal. During that period there was a total of 71 degree days at Trenton, 65 at Atlantic City and 82 at Long Branch, necessitating the heating of residences on several days. The remainder of the month was much warmer than normal with heat waves from the 13th to 18th and from the 23d to the close of the month. The 15th and 30th were the hottest days with 100° registered at Elizabeth, Hammonton and Indian Mills. The State monthly range in temperature from 100° at those stations to a low of 30° on the 1st at Layton was the greatest of record for July with one exception.

This was the second consecutive month with precipitation considerably above normal though the excess was less than in May. The principal rain period was from the 18th to 21st, when about half of the month's rainfall occurred. At no time, however, was soil moisture inadequate. There was the most rain in the northern part of the State, particularly in the Highlands, though Long Branch on the coast had the greatest monthly total of any station. There were numerous thunderstorms. Strong winds occurred on the 18th in the vicinities of Plainfield and Long Branch, but there was no great damage from that source, and no hail of importance.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 42 stations, was 69.9°, which was 0.9° above normal. The highest temperature was 100° at three stations on the 15th and 30th, and the lowest, 30°, at Layton on the 1st. The highest monthly average temperature was 74.3° at Burlington, and the lowest, 65.3° at Long Valley.

The temperature departure from the normal for the year 1945 to date, for the State, is +1.2°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 63 stations, was 4.30 inches, which was 0.47 inch above normal. The greatest monthly precipitation was 6.94 inches at Long Branch, and the least, 1.42 inches at Tuckerton. The greatest amount of precipitation in any 24 consecutive hours was 2.53 inches at Chatham on the 21-22d.

The average for the Highlands was 5.54 inches; for the Red Sandstone Plain, 4.58 inches; for the Southern Interior, 3.64 inches; and for the Sea Coast, 3.87 inches.

The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, +3.96 inches; Red Sandstone Plain, +0.19 inch; Southern Interior, -3.82 inches; Sea Coast, -3.67 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 4, 10, 11, 13, 14, 18, 19, 20, 21, 26, 28.

HAIL: 1, 2.

THUNDERSTORMS: 1, 2, 3, 4, 6, 10, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 29.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.17	7	29.57	3	13.6	35	ne.	26	77	69	75	64	65
Long Branch.....	30.14	7	29.61	3	10.2	40	se.	18	76	54	67	56	82
Trenton.....	30.16	7	29.59	3	7.8	30	w.	18	76	52	62	53	71

COMPARATIVE DATA FOR JUNE.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	68.7	97	39	1.79	0	.....	.....	.....
1886.....	67.1	91	41	3.38	0	.....	.....	.....
1887.....	68.2	97	42	6.77	0	10	.....	.....
1888.....	70.8	99	39	2.59	0	6	.....	.....
1889.....	69.9	91	40	3.73	0	10	.....	.....
1890.....	70.7	95	42	3.59	0	7	11	13
1891.....	69.7	102	38	2.92	0	5	14	9
1892.....	72.4	98	44	3.85	0	11	10	12
1893.....	69.7	103	40	2.95	0	11	10	11
1894.....	70.6	102	35	2.28	0	9	14	11
1895.....	71.7	103	39	3.24	0	10	11	11
1896.....	68.1	96	37	5.46	0	10	12	10
1897.....	66.1	95	35	3.38	0	10	10	13
1898.....	70.1	100	38	2.10	0	8	14	12
1899.....	72.3	103	38	2.50	0	7	15	10
1900.....	70.4	97	39	3.08	0	8	12	12
1901.....	70.0	103	35	1.57	0	5	18	8
1902.....	67.5	99	37	6.57	0	11	14	11
1903.....	64.0	92	37	7.68	0	15	6	10
1904.....	68.6	100	34	3.13	0	12	13	10
1905.....	68.3	96	35	3.43	0	10	11	12
1906.....	70.4	98	38	4.48	0	12	11	11
1907.....	64.7	96	31	4.41	0	10	12	10
1908.....	69.9	99	35	2.32	0	4	16	12
1909.....	70.0	99	36	3.26	0	12	9	10
1910.....	66.9	95	34	5.17	0	13	9	10
1911.....	68.9	97	40	5.36	0	14	9	12
1912.....	68.0	98	33	1.94	0	8	9	12
1913.....	69.1	98	31	1.80	0	5	19	8
1914.....	68.5	98	35	2.66	0	7	14	9
1915.....	67.0	95	37	3.12	0	11	13	10
1916.....	64.7	87	36	4.20	0	13	10	9
1917.....	68.9	95	40	4.27	0	12	13	10
1918.....	66.3	96	32	3.43	0	8	15	9
1919.....	69.5	99	33	3.16	0	8	16	7
1920.....	68.4	98	38	6.18	0	12	13	9
1921.....	70.4	100	33	3.23	0	8	18	7
1922.....	71.1	95	39	6.31	0	15	12	9
1923.....	72.5	106	37	2.08	0	7	18	8
1924.....	66.8	95	30	4.20	0	13	11	11
1925.....	73.6	103	36	3.10	0	9	17	9
1926.....	64.9	97	31	2.60	0	11	12	9
1927.....	65.4	97	31	3.16	0	10	15	9
1928.....	66.6	93	36	6.75	0	15	10	9
1929.....	69.5	98	33	3.11	0	9	15	9
1930.....	70.8	98	30	4.17	0	8	16	8
1931.....	69.3	101	40	4.84	0	10	16	7
1932.....	69.3	98	30	3.68	0	10	13	8
1933.....	71.0	105	32	2.79	0	9	17	8
1934.....	72.6	103	38	3.68	0	7	16	9
1935.....	68.9	96	38	4.64	0	13	14	8
1936.....	69.1	99	38	4.93	0	12	12	7
1937.....	70.5	99	41	4.66	0	13	11	9
1938.....	67.2	96	29	7.79	0	13	11	9
1939.....	70.8	99	35	3.55	0	10	12	9
1940.....	68.6	95	32	3.28	0	10	12	9
1941.....	69.4	98	37	5.09	0	9	15	7
1942.....	69.8	96	41	3.11	0	11	11	9
1943.....	74.2	102	43	3.24	0	9	17	6
1944.....	70.4	100	33	4.08	0	10	12	10
1945.....	69.9	100	30	4.30	0	13	11	10
Period.....	69.0	106	29	3.88	0	10	13	10

Climatological Data for June 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City	Atlantic	8	72	69.8	+3.2	97	30	45	6	2.52	-0.52	0.67	21-22	0	13	5	14	11	s.	U. S. Weather Bureau.
Barnegat City	Ocean	36	6	67.8		93	16	46	1	2.83		1.28	2	0	14					U. S. Coast Guard.
Belleplain	Cape May	49	51			97	14†			4.91	+1.72	1.22	20	0	11	13	14	3	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	4							3.40		0.86	19	0	14				se.	City Water Dept.
Belvidere	Warren	289	53	69.4	0.0	98	15	40	1	6.29	+1.97	1.90	20	0	17	13	6	11		Miss C. S. Hixson.
Berlin	Camden	70	4							3.85		1.44	19	0	13	14	9	7	sw.	Samuel H. McCulley.
Boonton	Morris	280	55	68.8	+1.3	93	30	41	6	4.20	+0.40	0.90	20	0	14	14	7	9	nw.	John Kline.
Bridgeton	Cumberland	30	62	72.6	+0.5	97	30	42	1	3.28	-0.38	0.76	22	0	9	17	4	9	sw.	Bennett K. Matlack.
Brooklawn	Camden	30	4							3.94		1.22	28-29	0	10					C. D. Scott.
Burlington	Burlington	12	59	74.3	+2.9	99	30	44	1	2.98	-1.04	0.74	10-11	0	13	10	12	8	w.	Public Service E. & G. Co.
Canoe Brook†	Essex	180	15			97	30			5.22	+0.88	1.43	19	0	14	13	8	9	w.	N. J. Water Policy Comm.
Cape May	Cape May	17	57	69.7	+2.0	94	30	49	1	4.27	+1.20	1.87	2-3	0	11	7	13	10	sw.	Naval Air Station.
Charlotteburg†	Passaic	760	53	66.6	+1.0	94	15	34	8	4.46	+0.10	0.88	2-3	0	14	5	10	15	w.	Newark Water Dept.
Chatham	Morris	185	41							6.62	+2.41	2.53	21-22	0	12	13	9	8		Edward P. Molitor.
Chatsworth	Burlington	90	5	70.0		98	15	38	6	3.75		0.95	19-20	0	10	9	14	7	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	32	71.0	+1.4	96	14†	41	6	3.76	+0.04	0.90	20-21	0	8	7	10	13	w.	Worthy Hitt.
Clinton	Hunterdon	300	2							4.16		1.08	19-20	0	15	9	11	10	sw.	L. W. Klockner.
Culvers Lake†	Sussex	760	44							5.84	+1.10	1.64	20	0	12					L. S. Dupue.
Dover	Morris	600	61											0	12					William C. Harris.
Elizabeth	Union	34	66	70.9	+0.3	100	30	38	1	3.80	+0.04	1.03	21-22	0	12	16	4	10	ne.	Union County Park Comm.
Flemington, 2 mi. N.E.	Hunterdon	140	59	71.0	+1.1	98	14†	41	1†	4.49	+0.55	0.94	19-20	0	12	18	4	8	w.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120	1	70.4		96	30	42	1	4.69		1.20	21	0	15	4	13	13	sw.	A. A. B. Weather Station.
Freehold	Monmouth	194	41	69.2	-1.3	98	30	36	1	2.73	-1.08	0.84	21-22	0	13	15	8	7	sw.	Moreau Plant Co.
Hammononton	Atlantic	95	39	71.9	+0.5	100	15	39	1	3.92	+0.07	1.26	19-20	0	11	11	10	9	sw.	J. G. Wilson.
Hightstown	Mercer	110	52	69.5	+0.3	98	30	36	1	4.56	+0.56	2.08	19	0	15	11	12	7	sw.	James R. Pickering
Indian Mills†, 2 mi. W	Burlington	100	56	70.2	+0.2	100	30	34	1	3.73	-0.49	1.24	19-20	0	13	7	18	5	nw.	Edward Entwistle.
Jersey City	Hudson	81	47	68.4	-2.6	96	30	42	1	4.18	+0.49	1.53	19-20	0	13	13	8	9	sw.	J. C. Water Dept.
Lakewood	Ocean	54	41	69.9	+1.1	97	15†	34	1	3.38	-0.71	0.65	22	0	15	7	15	8	sw.	R. W. Holman.
Lambertville	Hunterdon	75	58	69.8	+0.3	97	30	39	1	5.10	+1.02	1.25	28	0	11	14	5	11	sw.	Mabel Woollaston.
Layton†, 3 miles NW.	Sussex	480	44	66.0	-0.1	93	15	30	1	6.40	+2.13	1.24	20	0	15	11	5	14	nw.	A. M. Dupue.
Little Falls	Passaic	157	42	69.2	0.0	96	15	40	1†	5.10	+0.93	1.07	21	0	15	14	9	7	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	37	69.2	+1.5	98	30	41	1	6.94	+3.04	2.40	18	0	14	9	13	8	s.	Storm Warn. Display Sta.
Long Valley	Morris	660	15	65.3	-2.6	95	30	33	6	6.18	+1.63	1.20	21	0	14	15	8	7	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	4							4.37		0.96	21	0	12	14	9	7	sw.	David Griscom.
Mays Landing	Atlantic	50	1							2.87		0.81	19-20	0	11	14	9	7	sw.	Elmer Earle.
Millville	Cumberland	60	5							4.75		1.20	21-22	0	14	8	15	7	sw.	Paul Ritchie.
Moorestown	Burlington	62	82	70.6	+0.4	97	16†	43	1	3.54	-0.23	0.77	10-11	0	12	10	5	15	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	500	4							3.97		0.98	21	0	14	15	8	7		James C. Long.
Newark	Essex	10	91	70.8	+1.2	99	15	43	6	4.17	+0.28	1.33	21	0	11	2	17	11	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	91	69.9	+0.6	95	30	40	1	4.45	+0.65	1.96	19-20	0	15	13	6	11	nw.	N. J. Experiment Station.
New Milford†	Bergen	12	27							3.47	-0.46	1.13	21	0	13					Hackensack Water Co.
Newton	Sussex	769	62	66.4	-1.5	96	25	38	1	5.53	+1.21	1.08	19-20	0	19	5	13	12	nw.	Irrving J. Kern.
Oranget†	Essex	140	5							5.77		1.81	21	0	16					County Engineer.
Paterson	Passaic	95	74	69.6	-0.5	97	15	40	1	4.78	+0.61	1.77	21-22	0	15	11	11	8	sw.	J. W. Cook.
Pemberton	Burlington	55	16	72.2	+0.6	98	30	40	1	4.11	-0.52	1.12	19-20	0	12	14	8	8	w.	Charles A. Doehlert.
Phillipsburg	Warren	182	62	68.6	-0.9	99	15	38	6	4.36	+0.47	1.40	19-20	0	14	9	14	7		Town Engineer.
Plainfield	Union	120	57	69.4	+0.5	98	30	37	1	4.87	+0.71	1.46	19-20	0	14	4	18	8	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	4							3.73		0.84	19-20	0	12					Walker-Gordon Lab.
Pleasantville†	Atlantic	8	47	69.9	+1.4	99	30	35	1	2.66	-0.80	0.75	21-22	0	12	11	10	9	s.	N. J. Water Policy Comm.
Rahway	Union	20	6							4.12		1.64	19-20	0	11	11	8	11	ne.	Louis Fontenelli.
Ridgefield	Bergen	80	28	69.6	+0.9	98	30	39	6	5.81	+1.72	1.27	19-20	0	12	7	15	8	nw.	George P. Kirsten.
Runyon†	Middlesex	18	22	67.6	-1.0	92	15†	32	1	3.69	-0.33	0.88	21	0	12	17	9	4	w.	N. J. Water Policy Comm.
Rutherford	Bergen	51	1	69.0		95	15†	42	6	5.51		2.01	21	0	15	2	10	18	nw.	Harold Scott.
Sandy Hook	Monmouth	15	47	68.9	+1.1	97	30	46	1	3.28	-0.50	0.95	19-20	0	12					U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	62	70.0	+0.9	96	30	37	1	3.85	+0.01	1.13	21-22	0	13	11	9	10	w.	Joseph Starkman.
Sussex	Sussex	450	50	68.9	+1.5	97	14	38	6†	5.26	+1.10	1.29	16-17	0	17	7	6	17	w.	Marshall Hunt.
Toms River	Ocean	33	24							3.70	-0.11	1.38	10-11	0	11					Robt. F. Snyder.
Trenton	Mercer	56	73	71.6	+2.1	98	30	46	1†	3.37	+0.28	1.39	19	0	15	2	16	12	s.	U. S. Weather Bureau.
Trenton No. 2	do.	105	15	71.6	+0.3	98	30	43	6	4.33	-0.39	2.03	19	0	15					Edward H. Ristow.
Tuckerton	Ocean	23	52	70.6	+1.7	100	30	38	1	1.42	-2.09	0.36	10	0	9	15	6	9	s.	John H. Brown.
Vineland	Cumberland	110	65							4.75	+1.20	1.26	19-20	0	10	17	7	6	w.	Robert Jones.
Westfield	Union	145	6							4.58		1.62	19-20	0	9	14	7	9	sw.	Town Engineer.
Woodcliff Lake†	Bergen	103	27							4.51	+0.82	1.70	21	0	13					Hackensack Water Co.
Woodstown	Salem	16	10							3.90		1.35	29	0	21	5	4		se.	Geo. S. Keen.
New York, N. Y.		10	75	70.6	+1.8	95	30	45	1	4.42	+1.09	1.58	19-20	0	12	8	14	8	s.	U. S. Weather Bureau.
Philadelphia, Pa.		10	75	71.5	+0.9	97	30	44	1	3.77	+0.53	0.99	21	0	15	2	17	11	sw.	U. S. Weather Bureau.
For the State				69.9	+0.9	100	15†	30	1	4.30	+0.47	2.53	21-22	0	13	11	10	9	sw.	

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

‡ Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for June 1945

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast	.34	.03	.14	.09				T.	T.	.17	.22							.30	.01	.12	.55	.12				.25		.18				2.52	
Barnegat City ⁴	do.	1.28	.06	.18							.07	.02		.06					.17	.15	.04	.36	.07				.18		.17	.02			2.83	
Belleplain	Tuckahoe		.04	.36		.22	.05				.34	.34								.35	.12		.88				.41			.70			4.91	
Belmar ²	Coast	T.	.18	.19	.05	.01	T.				.15	.25	T.	.38	T.					.27	.86		.52	.09			.27		.07	T.			3.40	
Belvidere	Delaware	.03	.63	.55	.18	.38					.11	.05	.03	.15				.08	.19	.27	.17	1.90	1.11				.37		.09			6.29		
Berlin	Mullica	.20	.03	.02	.04	.16				.18	.28			T.			.10		.15	1.44	T.	.85				T.	T.	.37	.03			3.85		
Boonton ³	Passaic		.11	.80	.18	.35	T.				T.	.12	.05		.23			.30		.02	.99		.97				T.	T.	.03	.02			4.20	
Bridgeton	Delaware		.17	.19		.05					.75	.25								.43	.64	.04	.76									3.28		
Brooklawn	do.		.18			.18	.23				.29	.09			.08				.24	.38		1.05								1.22			3.94	
Burlington	do.		.20	.06	.06	.14	.30				.19	.55		.10	.10					.08	.45		.19									2.98		
Canoe Brook ³	Passaic		.58	.74	.10	.35	T.				.06	.09	.06		.64				.03		.10	1.33	1.10				T.	.02		.02			5.22	
Cape May ²	Coast		.87	1.00	T.	.29					.13	.32							T.	.08	.01	.03					.37		.95	.22			4.27	
Charlotteburg	Passaic		.14	.88	.30	.27	.03				.05	.11		.07				.21		.72	.77		.81			.06				.04			4.46	
Chatham ³	do.		.52	.73	.08	.39	T.				.05	.10	.07		.59			.11		.03	1.42		2.53					T.		T.			6.62	
Chatsworth	Coast	.51				.33					.17	.17		.19	T.				.30		.95		.63				.10			.40			3.75	
Clayton	Delaware		.18			.10					.40	.20								.60	.77		.90							.61			3.76	
Clinton	Raritan		.33	.39	.29	.40					.18	.09							.07	.26	.28	.80	.04	.73		T.		.07		.14			4.16	
Culvers Lake	do.		.30	.52	.25	.40						T.	T.	T.				.07	1.13		.46	1.64		.45			.18	.40	T.	.04			5.84	
Dover	Passaic																																	
Elizabeth	Coast	T.	.38	.81	.23	.16					.10	T.	.04	.76				T.		.21		.01	1.03		T.		.06			.01			3.80	
Flemington	Raritan	T.	.80	.11	.29	.41					.24	.09	.07							.21	.94		.74		.48			T.		.11			4.49	
Fort Dix, A.A.B. ²	Delaware	T.	.01	.04	.25	.05					.26	1.01	T.	.11				T.	.06	.93	.16	1.20	.07				.14		.32	.08			4.69	
Freehold	Raritan	T.	.17	.15	.07	.06					.05	.25	.10							.35	.12		.84		.38			.02		.17			2.73	
Hammonont	Mullica	.11	.20	.08	.03	.32					.28	.10						T.	.05		1.26	1.06								.43			3.92	
Hightstown	Raritan		.18	.16	.21	.08			T.		.04	.21	.08	.08				.13		2.08	.32		.74				.02		.02		.21			4.56
Indian Mills	Mullica	T.	.22	.03	.01	.19	T.				.13	.41		T.				.07	.16	.96	.28		.76				.05			.46	T.		3.73	
Jersey City ²	Coast	.80	.06	.19	.06	T.					.06		.04	.67				.23		1.45	.08	.50						.02		.02			4.18	
Lakewood	Metedeconk	T.	.05	.16	.22	.04					.12	.52		.02	.17			.04		.41	.60		.65				.06			.32			3.38	
Lambertville	Delaware		.35	.09	.08	.48					.14		T.	.48						.75	.94						.40		1.25	.14			5.10	
Layton	do.	.42	.36	.28	.65						.03	.01	.05					.27	.99	.06	.42	1.07	1.24				.50		.05	T.			6.40	
Little Falls ³	Passaic	.10	.98	.21	.19						.01	.28	.15		.75				.06		.01	.96		1.07				.01	.31		.01		5.10	
Long Branch ²	Coast	T.	.50	.12	.04	.03					.20	.13	T.	.37					2.40	.02	.12	.87	.02				.06			.06			6.94	
Long Valley ³	Raritan	.48	.82	.12	.52	.06					.33	.22		.45				.09		.84	1.10		1.20					.10		.04			6.18	
Marlton	Delaware	.37	.03		.29						.33	.22		.45				.01		.77	.25		.96				.08			.61			4.37	
Mays Landing	Gt. Egg Harbor	.03	.18	T.	T.	.08					.38	.22	T.					.06		.33	.48		.74				.19			.18			2.87	
Millville ²	Maurice	.29	.02		.10						.73	.15						.06	.27	.35	.73	1.17	.03				.06		.66	.13			4.75	
Moorestown ³	Delaware	.37	.01	.01	.16	.21					.77	T.		.26				.06		.20	.52		.60				T.	T.		.37			3.54	
Morris Plains	Passaic	.48	.45	.40	.22						.14	.03	.12	.20	.03			.10	.05		.76	T.	.98				.01			T.			3.97	
Newark ¹	Coast	T.	.86	.03	.24	.02	T.				.04	T.	.01	.52				T.	T.	1.07	.04	1.33	T.		T.		T.			.01			4.17	
New Brunswick	Raritan	T.	.41	.02	.12	.28			T.		.04	.05	.01	.07	.31					.69	1.27	T.	1.07			T.	.05	.01	T.		.05			4.45
New Milford ²	Hackensack	.53	.07	.20	.05						.28	.07		.29						.02	.70	.09	1.13	.03						.01			3.47	
Newton	Delaware	.01	.57	.48	.31	.46	.03				.02	.06	.07	.03				.06	.38	.13	.81	.08	.50	.48	.02	.03							5.53	
Orange ²	Passaic	.48	*	.49	.10				*		.16	.06	.78					*	.06	1.65	.02	1.81					.16						5.77	
Paterson ²	do.	T.	.64	.06	.25	.07					.31	.01	.16	.50				.04	.02	.87	.07	1.76	.01				.01		T.				4.78	
Pemberton	Delaware	.07	.06	.03	.10	T.					.13	.90			.03					.26	.86		.90				.18			.59			4.11	
Phillipsburg	do.	T.	.65	.21	.15	.31			T.		.10	.10	.05	T.				.14	.36	.22	1.40	.48				T.	.05		.14				4.36	
Plainfield	Raritan	T.	.40	.35	.25	.16			T.		.07	.03	.02	.85						1.24	.22	.01	1.13							.01			4.87	
Plainsboro	do.	.54	.09	.01	.24						.20	.20		.27					.33		.84				.65	.16		.04			.36			3.73
Pleasantville ³	Coast	.03	.03		.23	.24					.05	.29								.36	.34		.75				.02		.12		.20			2.66
Rahway ²	Rahway	T.	.63	.02	.18	.04			.02		.08	T.		.55						1.53	.11	.94	.02									T.		4.12
Ridgefield	Hackensack	T.	.31	.55	.70	.10					.43	T.	.14	.66					T.	.12	1.15	.87	.82				.01		T.				5.86	
Runyon	Coast	.62		.06	.16						.06	.05		.10	.26					.48	.40		.88		.57		.05						3.69	
Rutherford	Passaic	T.	.86	.19	.20	.10					.17	.02	.17	.49	.01			.01	T.	1.01	.04	2.01	.22				T.		.01	T.			5.51	
Sandy Hook ²	Coast	.01	.63	.04	.02	T.					.10	.05	T.	.80					.01	.92														

Daily Temperatures for June 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	64	63	64	60	55	68	72	71	69	65	87	85	77	84	82	91	87	78	76	81	75	79	90	88	79	77	86	77	85	97	77.1
	Minimum...	46	53	56	50	49	45	49	53	57	60	62	70	69	72	70	70	72	69	67	67	65	64	62	70	71	65	62	65	66	77	62.6
Barnegat City†.....	Maximum...	63	62	58	56	57	66	66	68	68	63	84	81	75	80	80	93	87	75	75	75	74	76	86	81	82	74	83	78	90	92	74.9
	Minimum...	46	50	53	51	50	48	51	55	52	59	60	67	65	65	66	65	64	65	63	65	62	63	65	70	69	63	61	62	69	74	60.7
Belleplain.....	Maximum...	69	70	73	62	62	67	73	76	75	79	87	84	88	97	96	93	95	95	90	94	87	83	88	92	91	91	85	88	91	97	83.9
	Minimum...	56	60	56	53	53	69	73	78	79	66	90	84	82	97	98	94	93	92	75	85	78	82	89	95	95	80	87	91	92	97	80.6
Belvidere.....	Maximum...	40	45	50	48	47	41	42	67	48	59	62	62	59	63	67	68	69	69	66	64	60	59	56	60	67	67	53	54	65	73	58.3
	Minimum...	58	58	52	51	57	67	71	76	77	67	83	81	83	91	92	90	89	88	77	83	84	80	86	92	90	76	85	86	87	93	81.4
Boonton/.....	Maximum...	44	45	45	45	46	41	43	43	46	45	58	62	57	61	60	67	67	67	67	67	64	60	55	54	65	67	59	51	61	72	56.2
	Minimum...	65	74	76	64	62	70	75	79	76	76	88	86	90	96	96	94	95	95	84	85	88	80	88	93	91	82	86	91	92	97	83.8
Bridgeton.....	Maximum...	42	47	57	54	49	44	46	49	50	50	65	68	67	69	72	72	71	72	65	68	66	64	61	64	69	69	59	72	62	76	61.3
	Minimum...	66	72	70	60	58	68	74	78	78	72	88	86	82	88	97	95	95	94	87	85	90	89	89	94	94	87	88	91	92	99	83.9
Burlington.....	Maximum...	44	48	46	51	48	45	48	49	59	65	69	67	73	74	79	72	75	65	72	74	63	72	72	86	74	60	86	73	82	64	78.6
	Minimum...	60	62	51	51	58	69	75	77	67	81	79	83	92	89	86	93	88	80	84	81	82	87	92	86	79	83	87	91	97	88.1	
Canoe Brook /.....	Maximum...	62	63	72	64	60	65	70	71	66	65	87	81	74	92	79	88	87	75	75	82	73	78	84	90	77	78	81	75	86	94	76.5
	Minimum...	49	57	58	55	50	50	54	58	59	61	62	67	66	67	67	67	68	68	65	65	65	65	68	71	67	68	65	68	67	71	62.9
Cape May*.....	Maximum...	60	58	56	50	50	67	70	76	86	85	84	84	82	91	94	92	90	90	88	82	81	82	84	90	90	88	81	86	90	91	79.9
	Minimum...	38	43	46	46	43	38	41	34	39	52	57	67	52	55	59	64	65	62	62	61	55	68	48	62	58	61	50	43	64	69	53.4
Charlotteburg.....	Maximum...	63	69	62	59	56	66	72	75	76	70	88	86	89	94	98	95	94	88	71	85	82	88	92	84	83	90	90	97	97	97	81.6
	Minimum...	41	46	53	49	48	38	44	47	43	59	63	68	62	65	68	70	71	72	64	66	60	60	56	60	63	68	55	53	65	72	58.3
Chatsworth.....	Maximum...	69	70	69	76	65	66	75	78	74	75	88	87	91	96	96	94	94	89	85	88	81	89	93	92	85	86	92	94	94	94	84.1
	Minimum...	42	42	44	47	48	41	46	44	45	48	58	67	64	67	68	70	67	73	64	66	63	63	58	63	69	68	57	57	65	66	58.0
Clayton.....	Maximum...	62	64	57	57	58	72	77	79	81	73	88	87	88	95	96	94	96	95	88	86	86	83	91	95	93	87	87	86	92	100	83.1
	Minimum...	38	46	51	50	46	49	55	45	48	58	60	67	60	64	67	70	68	69	67	65	61	61	56	60	67	66	54	55	64	73	58.7
Dover.....	Maximum...	59	64	60	57	59	69	73	81	78	72	90	86	88	98	97	97	97	94	85	87	90	83	89	94	93	88	88	94	94	98	83.4
	Minimum...	41	45	50	51	47	41	46	48	47	58	61	67	60	64	68	70	69	66	65	62	61	57	60	68	68	57	56	65	74	58.7	
Elizabeth.....	Maximum...	58	72	57	61	57	67	72	76	77	68	86	83	88	92	95	92	95	95	85	83	86	78	81	90	90	83	89	89	96	96	81.0
	Minimum...	42	48	51	51	46	45	49	49	44	57	63	66	64	66	70	71	73	68	64	65	62	62	60	67	70	64	58	57	66	77	59.8
Freehold.....	Maximum...	62	67	60	58	55	67	71	76	72	69	86	87	88	95	97	93	94	94	89	85	85	81	87	91	91	85	82	87	93	98	81.4
	Minimum...	36	44	48	48	45	38	41	46	47	61	61	61	59	64	68	68	69	67	63	64	60	59	56	61	66	66	55	54	63	74	57.1
Hammonton.....	Maximum...	70	76	72	68	72	70	76	78	78	72	90	85	92	98	100	97	98	98	88	88	89	81	89	94	95	80	86	93	94	99	85.5
	Minimum...	39	46	47	51	48	40	43	46	44	59	64	66	62	67	70	70	69	69	65	57	63	61	55	66	61	68	57	57	65	75	58.3
Hightstown.....	Maximum...	56	66	58	58	65	67	72	75	79	68	87	82	88	93	96	92	94	93	83	84	87	81	88	92	93	81	85	91	91	98	81.1
	Minimum...	36	45	50	48	47	40	43	46	47	58	61	67	59	63	69	68	69	69	64	65	61	61	56	61	67	67	56	54	64	75	57.9
Indian Mills.....	Maximum...	60	71	68	61	57	68	73	77	76	70	88	84	91	95	97	94	95	94	84	83	87	79	88	91	79	85	92	91	100	82.4	
	Minimum...	34	46	54	52	49	38	39	44	41	59	64	69	63	64	71	71	69	69	64	67	60	63	58	67	68	58	53	65	75	75	58.1
Jersey City*.....	Maximum...	56	59	52	50	54	66	71	72	71	62	83	82	78	86	88	90	88	92	76	78	76	78	88	85	75	77	82	77	87	96	76.2
	Minimum...	42	48	50	47	47	45	48	52	54	60	60	68	62	66	74	72	72	71	64	64	64	62	63	67	60	62	68	62	76	76	60.7
Lakewood.....	Maximum...	62	65	58	54	55	68	74	76	77	67	86	84	86	90	97	91	95	93	86	82	84	79	87	90	92	83	84	85	89	97	80.5
	Minimum...	38	48	52	50	48	39	44	50	48	59	61	69	61	65	70	72	71	70	65	66	60	63	57	60	68	68	59	55	65	77	59.3
Lambertville.....	Maximum...	63	65	62	58	58	66	73	77	76	71	87	83	86	94	96	93	93	92	85	84	81	80	88	92	92	82	85	90	92	97	81.4
	Minimum...	39	45	51	49	47	40	43	48	48	57	63	65	59	64	68	69	69	70	65	64	61	62	55	60	68	67	55	58	66	74	58.3
Layton.....	Maximum...	57	57	55	50	55	67	72	77	75	66	85	80	78	92	93	90	82	87	71	82	83	80	86	91	88	74	81	85	90	92	77.4
	Minimum...	30	44	48	47	45	42	37	38	39	55	61	65	53	62	62	62	62	65	64	62	57	56	50	54	62	64	66	56	64	71	54.7
Little Falls/.....	Maximum...	60	61	53	51	58	70	75	79	78	72	88	83	87	95	96	93	93	93	80	86	86	83	90	93	92	76	83	88	90	92	80.8
	Minimum...	40	47	49	49	47	40	44	44	43	57	60	67	58	65	67	69	69	69	67	64	61	61	55	60	65	68	55	53	65	72	57.7
Long Branch*.....	Maximum...	60	61	57	54	57	69	72	76	76	65	87	85	84	87	94	93	90	90	81	81	83	80	89	87	90	73	84	80	91	98	79.1
	Minimum...	41	47	51	51	49	42	46	49	51	49	60	69	61	66	71	68	72	64	64	62	63	59	65	69	65	61	55	68	76	76	59.3
Long Valley/.....	Maximum...	56	62	53	52	56	68	72	76	78	67	85	82	83	92	93	90	89	90	75	81	84	80	87	91	90	74	84	87	89	96	78.7
	Minimum...	37	40	45	45	41	33	38	37	39	51	55	63	52	56	60	62	61	62	60	60	55	56	49	53	60	62	48	45	64	68	51.9
Moorestown*.....	Maximum...	57	73	62	59	57	66	72	77	74	69	87	82	88	93																	

SEP 25 1945

CLIMATOLOGICAL DATA

UNIVERSITY OF ILLINOIS

24

NEW JERSEY SECTION.

A. E. WHITE.
TRENTON. N. J.

VOL. L.

JULY 1945.

No. 7

GENERAL SUMMARY.

Although July this year averaged only slightly cooler than normal, it was the coolest July since 1929. The heat wave which began on June 23d, continued through July 2d, and the hottest day of the month was the 1st, when five stations registered 99°. Most stations, however, did not have more than 3 or 4 days with readings of 90° or higher in marked contrast to July of last year. The coolest day was generally the 12th when a few stations recorded minima in the upper thirties.

The average rainfall of 9.32 inches was the heaviest for any July since 1897 and has been exceeded only twice since general records were begun in 1885. Several storms of cloudburst character occurred, the most intense being the one at Phillipsburg on the 9th, when 8.54 inches fell practically all within three hours. This storm caused the death of four persons when two buildings were crushed by a landslide and toppling of a retaining wall. Damage to highways and bridges in Phillipsburg and Warren County was estimated by the State Highway Department at \$140,000, while additional damage to private property including industries, farms, crops and homes in the vicinity probably exceeded \$100,000. Another catastrophic feature of July's weather was the floods in the Passaic and Hachensack Valleys on the 23d, caused by heavy rains over the period from July 15th to 23d. Some of the heavy amounts during this period were: Little Falls 14.22, Cedar Grove (unofficial) 16.03, Canoe Brook 12.53, Woodcliff Lake 11.80, Essex Fells 10.79, Midland Park 14.73, Chatham 10.87, Ringwood 8.81, and Wanaque 10.65 inches. Damage by these floods to highways and bridges in Passaic, Bergen and Essex Counties was officially estimated at slightly more than \$1,000,000. Damage to private property was probably equally as great, the region affected being commonly considered, due to its dense population, as a part of the New York

(Continued bottom next page)

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 41 stations, was 73.3°, which was 0.5° below normal. The highest temperature was 99° at five stations on the 1st, and the lowest, 36°, at Charlotteburg on the 12th. The highest monthly average temperature was 75.6° at Pemberton, and the lowest, 69.1° at Long Valley. The temperature departure from the normal for the year 1945, to date, for the State, is +1.2°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 62 stations, was 9.32 inches, which was 4.62 inches above normal. The greatest monthly precipitation was 17.84 inches at Phillipsburg, and the least, 4.67 inches at Mays Landing. The greatest amount of precipitation in any 24 consecutive hours was 8.54 inches at Phillipsburg on the 9th. The average for the Highlands was 12.46 inches; for the Red Sandstone Plain, 10.04 inches; for the Southern Interior, 8.70 inches; and for the Sea Coast, 8.00 inches. The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, +11.63 inches; Red Sandstone Plain, +5.46 inches; Southern Interior, +0.44 inch; Sea Coast, +0.05 inch.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 4, 5, 9, 14, 17, 18, 19, 20, 21, 22, 25, 26, 27, 28, 29.

HAIL: 2, 9, 10, 18, 22, 26.

THUNDERSTORMS: 1, 2, 3, 5, 6, 7, 9, 10, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.32	17	29.72	10	13.1	38	s.	15	86	78	85	56	0
Long Branch.....	30.34	17	29.67	10	10.3	38	n.w.	2	84	70	82	44	4
Trenton.....	30.32	17	29.67	10	7.6	46	sw.	2	85	65	77	46	0

COMPARATIVE DATA FOR JULY.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	0.1 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	75.2	100	44	3.50	0	.....	.....	.....	.....
1886.....	73.0	98	48	4.91	0	.....	.....	.....	.....
1887.....	77.1	102	54	7.67	0	11	.....	.....	.....
1888.....	71.1	95	45	3.50	0	9	.....	.....	.....
1889.....	73.4	95	48	10.19	0	14	.....	.....	.....
1890.....	72.5	101	39	5.62	0	9	12	11	8
1891.....	70.1	95	43	5.30	0	12	10	11	10
1892.....	74.3	105	44	4.03	0	8	12	14	5
1893.....	73.9	102	40	2.72	0	8	14	13	4
1894.....	75.7	106	44	1.66	0	6	14	12	5
1895.....	70.9	99	41	4.26	0	10	12	12	7
1896.....	75.0	98	47	5.50	0	13	13	10	8
1897.....	74.1	102	50	11.42	0	15	10	11	10
1898.....	75.3	107	38	4.96	0	10	11	13	7
1899.....	74.7	98	38	5.75	0	11	13	11	7
1900.....	75.9	104	42	4.74	0	11	15	12	4
1901.....	77.3	107	45	5.87	0	14	9	13	9
1902.....	73.0	100	43	4.78	0	13	10	12	9
1903.....	73.3	100	38	5.51	0	12	16	10	5
1904.....	72.3	98	42	4.87	0	13	13	10	8
1905.....	74.4	102	42	4.06	0	12	12	13	6
1906.....	72.8	94	46	5.58	0	12	11	14	6
1907.....	73.6	96	40	2.62	0	8	8	12	11
1908.....	75.6	106	42	4.70	0	9	12	13	6
1909.....	71.6	99	36	2.12	0	5	14	14	3
1910.....	75.3	99	42	1.36	0	5	12	12	7
1911.....	76.0	104	42	3.64	0	8	12	12	7
1912.....	73.7	100	36	3.86	0	9	14	10	7
1913.....	74.4	100	41	2.52	0	8	20	9	2
1914.....	71.5	97	40	6.05	0	15	9	11	11
1915.....	72.8	98	44	5.31	0	14	10	13	8
1916.....	74.4	97	45	5.40	0	12	11	9	11
1917.....	74.2	104	46	4.83	0	12	10	11	10
1918.....	72.2	104	39	3.93	0	8	17	9	5
1919.....	73.5	103	43	8.39	0	14	14	7	10
1920.....	71.7	96	42	5.76	0	11	17	10	4
1921.....	76.5	99	43	3.62	0	10	14	9	8
1922.....	73.0	98	44	5.79	0	13	13	9	9
1923.....	71.9	102	40	3.88	0	11	15	8	8
1924.....	71.6	98	41	2.59	0	6	19	8	4
1925.....	72.0	99	39	7.37	0	13	15	9	7
1926.....	73.0	105	40	5.46	0	12	16	7	8
1927.....	72.7	99	36	6.06	0	11	13	10	8
1928.....	74.2	96	41	6.86	0	12	16	8	7
1929.....	73.0	102	33	1.64	0	6	17	9	5
1930.....	74.3	105	42	3.98	0	10	16	9	6
1931.....	76.6	102	50	4.24	0	11	13	10	8
1932.....	73.8	98	41	2.76	0	8	19	8	4
1933.....	73.4	105	41	3.73	0	8	16	8	7
1934.....	75.8	100	43	3.65	0	9	16	9	6
1935.....	76.0	101	40	4.66	0	10	14	11	6
1936.....	74.6	110	40	2.47	0	8	17	8	6
1937.....	74.6	103	43	2.83	0	9	17	8	6
1938.....	74.7	98	43	8.84	0	16	11	10	10
1939.....	73.4	98	38	2.33	0	8	14	10	7
1940.....	73.9	104	40	2.73	0	9	15	9	7
1941.....	73.8	105	41	6.40	0	15	12	8	11
1942.....	74.6	105	41	7.30	0	12	13	10	8
1943.....	74.2	97	39	4.21	0	10	14	9	8
1944.....	75.6	101	43	1.44	0	6	17	10	4
1945.....	73.3	99	36	9.32	0	15	8	8	15
Period.....	73.8	110	33	4.70	0	10	14	10	7

Climatological Data for July 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City	Atlantic	8	72	74.6	+2.5	89	1	58	12	10.21	+6.28	3.33	23	0	13	2	9	20	s.	U. S. Weather Bureau.
Barnegat City	Ocean	36	5	73.1		88	8	57	11†	6.12		1.43	10	0	11					U. S. Coast Guard.
Belleplain	Cape May	49	51			97	1			6.66		1.25	17	0	14	12	4	15	sw.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	4							5.28		1.20	23	0	13				se.	City Water Dept.
Belvidere	Warren	289	53	71.0	+2.7	97	1	47	12	12.12	+7.30	4.41	9-10	0	14	8	6	17	sw.	Miss C. S. Hixson.
Berlin	Camden	70	4							12.80		4.55	22	0	16	15	5	11	sw.	Samuel H. McCulley.
Boonton	Morris	280	55	71.4	+0.9	94	1	45	12	9.49	+5.04	2.62	19-20	0	15	15	0	16	se.	John Kline.
Bridgeton	Cumberland	30	62	75.4	+0.8	97	1	51	12	10.14	+5.50	2.93	15	0	17	11	3	17	ne.	Bennett K. Matlack.
Brooklawn	Camden	39	4							10.12		2.96	5	0	11					C. D. Scott.
Burlington	Burlington	12	559	75.2	+0.9	97	1	50	12	8.85	+3.48	2.50	14-15	0	16	10	7	14	sw.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	15			96	1			13.71	+8.45	4.60	22-23	0	14	8	10	13	sw.	N. J. Dept. of Conservation.
Cape May	Cape May	17	57	73.8	+0.4	85	1†	63	12	7.99	+3.45	1.88	16	0	14	0	14	17	s.	Naval Air Station.
Charlotteburg††	Passaic	760	53	69.7	+1.4	93	1	36	12	9.72	+5.09	3.30	18-19	0	13	8	2	21	e.	Newark Water Dept.
Chatham	Morris	185	41							12.18	+7.30	3.54	18-19	0	15	9	11	11		Edward P. Molitor.
Chatsworth	Burlington	90	5	74.4		98	1	43	12	8.04		2.11	15-16	0	12	4	17	10	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	32	74.4	+1.1	96	2	48	12	8.62	+3.48	3.10	17-18	0	13	6	4	21	e.	Worthy Hitt.
Clinton	Hunterdon	300	2							11.22		2.88	18-19	0	14	8	2	21	se.	L. W. Klockner.
Culvers Lake††	Sussex	760	44							10.94	+6.41	2.20	18	0	15					L. S. Depue.
Dover	Morris	600	61																	William C. Harris.
Elizabeth	Union	34	66	74.2	+1.2	99	1	46	12	8.37	+4.00	2.07	17-18	0	19	12	6	13	ne.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	140	59	75.0	+2.2	99	1	47	12	8.38	+3.64	3.08	18-19	0	15	13	7	11	sw.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120	1																	A. A. B. Weather Station.
Freehold	Monmouth	194	41	72.7	-0.3	97	1	46	12	11.49	+7.00	3.61	23	0	15	14	8	9	s.	Moreau Plant Co.
Hammononton	Atlantic	95	389	74.7	-1.2	99	1	46	12†	9.19	+4.50	1.80	15	0	15	4	7	20	se.	J. G. Wilson.
Hightstown	Mercer	110	52	73.2	+1.0	98	1	47	12	9.94	+5.30	1.96	18	0	17	7	11	13	sw.	James R. Pickering
Indian Mills††, 2 mi. W.	Burlington	100	56	73.8	+1.2	98	1	41	12	11.15	+5.41	2.78	15	0	16	6	15	10	se.	Edward Entwistle.
Jersey City	Hudson	81	47	72.2	-1.8	90	1	54	12	7.53	+3.09	1.70	17	0	15	12	3	16	se.	J. C. Water Dept.
Lakewood	Ocean	54	41	73.5	+2.0	94	1	53	13	9.11	+3.90	3.25	23	0	15	2	11	18	sw.	R. W. Holman.
Lambertville	Hunterdon	75	58	73.8	+1.5	95	1	48	12	7.95	+3.32	1.91	18-19	0	12	13	4	14	sw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex	180	44	70.4	+1.7	92	1	47	12	10.51	+6.34	2.27	28-29	0	15	7	2	22	s.	A. M. Depue.
Little Falls	Passaic	157	42	73.5	+1.4	97	1	46	12	16.52	+11.73	7.67	22-23	0	16	8	14	9	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	37	73.4	+1.9	94	1	49	12	8.25	+3.41	1.50	2	0	16	7	8	16	s.	Storm Warn. Display Sta.
Long Valley	Morris	660	15	69.1	-0.4	94	2	38	12	12.16	+6.70	3.77	22-23	0	14	9	11	11	s.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	4							7.84		1.65	28	0	15	8	9	14	sw.	David Griscom.
Mays Landing	Atlantic	90	1							4.67		0.96	17	0	15				se.	Elmer Earle.
Millville	Cumberland	69	5							5.03		1.74	14-15	0	16	6	11	14	sw.	Paul Ritchie.
Moorestown	Burlington	62	82	73.7	+1.0	97	1	48	12	7.02	+2.11	1.65	28-29	0	13	6	4	21	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	500	4							8.94		1.82	18	0	18	12	4	15		James C. Long.
Newark	Essex	10	91	74.1	+1.1	98	1	52	12	6.15	+1.23	1.82	18-19	0	18	2	10	19	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	31	73.6	+0.4	95	1	48	12	10.07	+5.06	3.40	18	0	16	8	6	17	se.	N. J. Experiment Station.
New Milford††	Bergen	12	27							9.17	+4.63	1.85	17	0	18					Hackensack Water Co.
Newton	Sussex	769	62	70.2	-0.2	93	1	43	12	12.43	+8.05	3.19	15	0	22	7	3	21	sw.	Irving J. Kern.
Orange††	Essex	140	5							9.11		2.07	22	0	14					County Engineer.
Paterson	Passaic	95	74	73.8	+1.6	97	1	48	12	12.64	+7.89	4.12	22-23	0	16	8	6	17	sw.	J. W. Cook.
Pemberton	Burlington	55	16	75.6	+1.2	97	1	47	12	11.71	+6.93	5.10	22-23	0	16	7	10	14	sw.	Charles A. Doehrlert.
Phillipsburg	Warren	182	562	73.0	+1.2	99	1	46	12	17.84	+13.24	8.54	9	0	17	8	10	13		Town Engineer.
Plainfield	Union	120	57	73.6	+1.8	96	1	47	12	7.33	+2.28	2.43	18	0	17	2	12	17	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	4							8.45		1.70	17-18	0	14					Walker-Gordou Lab.
Pleasantville††	Atlantic	8	47	71.1	-1.1	97	1	44	12	7.98	+2.82	2.27	22-23	0	15	9	6	16	s.	N. J. Dept. of Conservation.
Rahway	Union	20	6							7.46		2.43	18	0	15	7	6	18	sw.	Louis Fonteuelli.
Ridgefield	Bergen	80	28	73.6	+1.8	99	1	47	12	6.95	+2.48	1.64	17	0	14	6	10	15	se.	George P. Kirsten.
Runyon††	Middlesex	18	22	73.2	+1.5	92	1	40	12	13.21	+8.49	4.54	17-18	0	14	8	14	9	w.	N. J. Dept. of Conservation.
Rutherford	Bergen	51	1	73.2		96	1	48	12	8.37		1.85	17	0	18	2	7	22	s.	Harold Scott.
Sandy Hook	Monmouth	15	47	73.7	+1.2	90	1	59	12	7.44	+2.46	1.82	17-18	0	17	4	5	22	s.	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	62	73.4	+1.1	95	1	50	12	4.88	+0.07	0.92	18	0	16	5	12	14	e.	Joseph Starkman.
Sussex	Sussex	450	50	73.8	+3.8	97	1	44	12	12.77	+8.30	2.48	14-15	0	17	9	4	18	w.	Marshall Hunt.
Tom River	Ocean	33	24							7.35	+1.64	2.25	15-16	0	13					Robt. F. Snyder.
Trenton	Mercer	56	73	74.6	+0.1	98	1	55	12	8.97	+5.03	1.94	17-18	0	15	1	10	20	s.	U. S. Weather Bureau.
Trenton No. 2	Do.	105	15	74.6		97	1	50	12	9.99	+5.29	1.79	2	0	15					Edward H. Ristow.
Tuckerton	Ocean	23	52	75.5	+2.8	97	1†	50	12†	5.71	+0.18	1.44	17	0	15	8	8	15	w.	John H. Brown.
Vineland	Cumberland	110	65							6.33	+1.59	1.50	15	0	19	7	13	11	se.	Robert Jones.
Westfield	Union	145	6							7.81		3.96	19	0	11	9	6	16	se.	Town Engineer.
Woodcliff Lake††	Bergen	103	27							14.06	+9.76	3.70	19	0	17					Hackensack Water Co.
Woodstown	Salem	16	10							5.47		1.90	17-18	0	8	11	12	8	se.	Geo. S. Keen.
New York, N. Y.		10	75	73.8	0.0	95	1	60	11	5.09	+0.85	1.76	17-18	0	16	4	10	17	s.	U. S. Weather Bureau.
Philadelphia, Pa.		10	75	76.0	-0.2	98	1	62	12	8.86	+4.71	2.84	5	0	15	4	8	19	sw.	U. S. Weather Bureau.
For the State				73.3	-0.5	99	1	36	12	9.32	+4.62	8.54	9	0	15	8	8	15	sw.	

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, *, †, ‡, etc., appearing in the table indicate the number of days missing; for example, † represents 2 days, etc.

† On other dates also. ‡ Length of precipitation record; temperature record is much shorter. * Estimated.

‡ Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

(Continued from front page)
metropolitan area. Much of the damage was caused by overflow of the small tributaries of the Passaic River.

A most unusual feature was the tornado of moderate intensity which struck in Trenton and vicinity about 3:15 p.m. on July

2d. While damage was comparatively light, probably \$50,000, several persons reported seeing a funnel shaped cloud. This storm was made the subject of a special report to the Chief of Bureau. Persons desiring details may secure same by writing to Weather Bureau Office, Trenton, N. J.

Daily Precipitation for July 1945

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast		.84				T.	.61								.04	1.05	.70	2.43	.19		T.	.03	.10	3.33	.15		.64	T.	T.	.10	T.	T.	10.21
Barnegat City ⁴	do.	.50	.49								1.43					.16	.96	1.03						.04	.41			.75		.20	.15			6.12
Belleplain	Tuckahoe				.54											.09	.88	.59	1.25	.41				.28	.45			.31	.70	.52	.54	.05	.05	6.66
Belmar ²	Coast	.10	.58	T.		.04	T.				.26			T.		.02	1.15	.10	1.04	T.	T.	T.	T.	.25	1.20	T.	T.	.15	T.	.05	.34			5.28
Belvidere	Delaware					.51	.79				4.41					T.	2.10		.14	1.10	1.36	.03	.15	.53			.44		.03	.30			T.	12.12
Berlin	Mullica	1.01			.34	.44					.34					.33	.90	.03	1.45	.40	1.90			4.55	.02		.38		.58	.08		.05		12.80
Boonton ³	Passaic		.49			.49				.05	.15	.05				.45	1.31	T.	.58	1.54	2.02			1.25	.07	T.	T.	.11		.30	.63			9.44
Bridgeton	Delaware	.17	.17			.51	T.	.08				.07				.08	2.93	.09	2.81	1.24	.17	.24		.31		.53		.07	.16		.51			10.14
Brooklawn	do.		.37			2.96	T.				.37					.18	1.46		.10	1.68	.23			1.48				.17	T.	1.12	T.			10.12
Burlington	do.	.61	T.		.34	.43					.07	.20				.160	.90	.20	.21	.50			1.00	.25	.12		.09	.40					8.85	
Canoe Brook ³	Passaic		.31			.41				.01	.28					.21	1.32	.02	.68	3.30	2.28	.05		4.60	.07				T.	.17	T.			13.71
Cape May ^{2†}	Coast	.68	.05		.02	T.				.01	.03					.11	1.53	1.88	1.54	T.			.09	T.	1.84				T.	.21	.01	T.		7.99
Charlotteburg	Passaic	.49	.21		.04	.54				.27	T.					1.51	.05	.40	1.36	3.30	T.	.02		1.35						.18				9.72
Chatham ³	do.		.37			.43				.01	.27					.30	.64	.01	.56	3.54	2.36	.05		3.39	.05		T.	.01		.19	T.			12.18
Chatsworth	Coast		.94			.11					.64					.21	.90	.31	.60	.80			1.22	T.					.10		.31			8.04
Clayton	Delaware	.34	.20		.72						.51					.10	1.18		.31	3.10	.55			.16	T.	.30			.62		.53			8.62
Clinton	Raritan	.54	.08		1.32	.93					.75					.95			.12	2.07	2.88			.36	.93	.03		.16		T.	.10	T.		11.22
Culvers Lake	do.	.50	.93	.07		T.	1.04				.70					1.80			.07	2.20	1.72	.12			.17			.54			.86	.14	.08	10.94
Dover	Passaic																																	
Elizabeth	Coast	.14	.18		.20	.25	.29				.27					.88	.04	1.13	2.07	1.11	.62	.03		.04	.90	.03		.02		.04	.13	T.	T.	8.37
Essex Fells	Passaic		.42		.45					.90	.50					.97	.35	.72	2.95	2.40			3.24	.16				.50		.15	.89			14.60
Flemington	Raritan	.35	.14	.13		.18	1.24				.41					.60	.02	.12	1.40	3.08				.18	.14			.14			.25		T.	8.38
Fort Dix, A.A.B. ²	Delaware																																	
Freehold	Raritan	1.55	T.		.53	.13					.37					1.67	.02	.96	.33	1.16	.23			.43	3.61			T.	.02	.04	.44			11.49
Hammonton	Mullica	.80	.31		.28						1.08					1.80	.04	1.16	1.30	1.15	.25			.03	.02	.63			.06		.28			9.19
Hightstown	Raritan	.73	.10		1.60	.13					.37	.18				1.54	.04	.49	1.96	.80	.01			.47	.86	.02	T.	.17	T.	T.	.47		T.	9.94
Indian Mills	Mullica	.33	.07		.06	.21					.72					T.	2.78	.05	.76	.98	1.83	.05		2.69	T.	.02		.06	.04	T.	.50		T.	11.15
Jersey City ²	Coast				.55	.02				.15						.12	.95		1.70	.90	1.35			.16	.32			.64		.10	.15		.02	7.53
Lakewood	Metedeconk	.15	.62	.30	T.	.10					.15					T.	1.45	.12	.90	.07	1.20	.25		T.	3.25	.10		T.	T.	.03	.42		T.	9.11
Lambertville	Delaware	.72	T.		.94	.06					.56					.86		.35	1.00	1.91	T.		.59	T.			.67	T.		.21	.08	T.	7.95	
Layton	do.	.04	.48	T.		.95				.06	1.02					1.26		.11	.73	1.12	.36			.04			1.31		.24	.08		.76		10.51
Little Falls ³	Passaic		.45			.54	.01				.23	.03				.55	.42		.96	2.80	1.82			.76	.07		.31	.50		.22	.01			16.52
Long Branch ^{2†}	Coast	.42	1.50		.14	.01					.36					.03	1.21	.06	1.23	.01	T.			1.23	.14	.01		.01	T.	1.39	.50			8.25
Long Valley ³	Raritan		.35			1.75					.38	.10				.68	.32		.22	2.20	.95	.82			3.55	.22		.40		.22				12.16
Manville	do.	.46	.30		.60	T.					.19					.06	.63	T.	.20	1.47	.82	.10		.47	.22		.09	T.	.10	.08		.08		5.87
Marlton	Delaware	.25	.16		.20	.62					.48					.81	.08	1.10	.66	1.08	.04		.30	.35				.06		1.65		T.		7.84
Mays Landing	Gt. Egg Harbor		.49	T.	T.											.84	.23	.96	1.10	T.		.08	.03	.02	.13	.66	T.	.81	.01	.08	.20		.03	4.67
Midland Park	Passaic	1.17			.46	.05				.16	.04					.08	.66		.69	1.65	5.48	.03		.86	5.36		.28		.06	.46		.14		17.63
Millville ^{2†}	Maurice	.21				.02	.18									.03	1.71	.06	.40	.35		.02	.18	.51	.49	.14	.03		.61	.09				5.03
Moorestown ³	Delaware		.68		.79	.27					.64					T.	1.20		.84	.33	.31			.23	.01			.07		*	1.65			7.02
Morris Plains	Passaic	.27	.14		.28	.68				.08	.11					1.53	.05	.22	1.82	1.30	.04	.01	T.	1.79			T.	.03	T.	.21	.02	.36		8.94
Newark ¹	Coast	T.	.26		.40	.03				T.	.12					.07	.62	.01	1.55	1.29	.58	.03	.03	.50	.23		T.	.11		.05	.19		.08	6.15
New Brunswick	Raritan	.20	.36	.18		.10	.30			T.	.42	T.				.95	.13	.56	3.40	.83	.12	T.	T.	1.81	T.		.44	.08	T.	.19				10.07
New Milford ^{2†}	Hackensack	.76			.71	.04					.16	.01				.02	1.65	.03	1.85	.98	.75	.02		.26	1.18		.40		.02	.10		.23		9.17
Newton	Delaware	.04	.50	.08		.29	.58	.01			.01	.48	.01			3.19		.10	1.24	2.80	.71	.02	.94	.01		.02	.49		.88	.01	.02		12.43	
Orange ^{2†}	Passaic		.30		.43	.01				.05	.23					*	1.01	1.12	2.00	.75			2.07				.32		.12				.70	9.11
Paterson ²	do.	.50			.47	.10				.20	.04					.05	.85	T.	.68	2.07	2.58			.88	3.24		.65		.04	.15		.14		12.64
Pemberton	Delaware	.03	.25		.06	.50				.46						1.15	.09	.72	.95	.35	.37		4.95	.15	.01	T.	T.	.07		1.60	T.	T.	11.71	
Phillipsburg	do.	T.	.20		1.55	T.				8.54	.68					.04	1.64	.04	.30	1.17	1.13	.05	.12	.45	.64		.84		.35	.10		T.	17.84	
Plainfield	Raritan	.10	.15	.10		.16	.19				.67					.69	.04	.43	2.43	1.44	.04			.58	.06		.10		.14	.01	T.		7.33	
Plainsboro	do.	1.02	.22</																															

Daily Temperatures for July 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Atlantic City*.....	Maximum...	89	88	81	79	78	82	79	85	81	80	76	76	77	75	75	75	74	78	80	80	82	81	80	76	80	82	80	80	85	75	79.4		
Baruegat City†.....	Maximum...	79	70	68	68	70	72	70	72	71	71	65	58	68	70	67	67	68	68	71	72	73	72	68	71	69	73	71	72	73	71	70	69.9	
Baruegat City†.....	Minimum...	86	85	77	77	79	80	79	88	87	78	74	75	77	77	76	76	72	76	79	79	81	79	75	78	79	83	75	78	83	75	72	78.5	
Belleplain.....	Maximum...	76	69	68	68	68	70	67	68	67	67	57	57	62	67	68	64	65	65	68	68	70	71	70	68	66	76	68	70	72	70	69	67.7	
Belleplain.....	Minimum...	97	95	82	91	86	88	82	86	91	90	80	81	83	82	80	75	77	81	86	86	87	86	86	81	85	91	90	83	83	81	74	84.7	
Belvidere.....	Maximum...	97	90	81	85	81	89	87	89	90	87	75	81	86	81	78	83	77	82	81	90	90	81	81	81	85	92	80	74	87	84	75	83.9	
Belvidere.....	Minimum...	70	67	59	53	61	69	59	58	64	65	55	47	55	63	70	63	64	64	69	70	66	66	68	67	67	71	68	65	65	70	65	64.0	
Boonton/.	Maximum...	94	89	78	81	80	85	83	85	87	84	71	77	80	78	79	82	76	79	74	85	89	82	72	83	80	87	82	71	85	82	72	81.0	
Boonton/.	Minimum...	67	67	56	52	57	62	56	55	61	66	56	45	50	59	67	65	65	67	67	69	66	66	67	64	62	67	67	63	63	62	61.9		
Bridgeton.....	Maximum...	97	95	81	85	86	88	85	89	87	91	77	82	85	82	76	76	75	80	87	84	88	82	85	80	84	91	88	86	83	77	75	84.1	
Bridgeton.....	Minimum...	76	71	64	57	63	72	66	63	68	67	62	51	55	63	70	68	67	71	68	69	68	65	68	72	68	69	71	70	70	70	66.7		
Burlington.....	Maximum...	97	95	82	85	86	84	85	86	89	88	75	80	85	84	79	81	79	81	81	86	91	88	83	82	85	87	76	75	82	80	76	83.6	
Burlington.....	Minimum...	75	74	75	58	62	71	65	61	64	66	60	50	58	63	69	67	68	67	71	70	69	67	68	70	69	73	69	67	67	68	66.7		
Canoe Brook/.	Maximum...	96	90	80	85	85	88	86	88	90	89	75	81	82	82	83	86	77	80	78	88	90	83	83	82	88	92	80	74	85	84	75	84.0	
Canoe Brook/.	Minimum...	73	71	68	66	69	71	71	70	69	70	65	63	66	66	68	67	68	69	71	69	70	70	65	68	74	72	72	73	72	71	68.3		
Cape May*.....	Maximum...	85	85	78	77	75	81	79	85	78	82	73	75	76	73	74	73	73	77	77	78	80	78	80	77	78	80	82	81	80	79	79	78.9	
Cape May*.....	Minimum...	73	71	68	66	69	71	71	70	69	70	65	63	66	66	68	67	68	69	71	69	70	70	65	68	74	72	72	73	72	71	69.3		
Charlotteburg.....	Maximum...	93	91	81	80	80	83	83	84	85	85	78	77	78	78	74	76	78	78	74	76	85	88	88	87	80	89	77	84	82	83	82	80	82.1
Charlotteburg.....	Minimum...	61	61	55	45	44	43	44	44	44	44	64	53	36	50	52	69	62	61	65	65	67	64	60	65	62	58	65	66	59	64	66	57.3	
Chatsworth.....	Maximum...	98	96	79	80	86	85	84	85	88	91	88	78	81	80	80	76	79	81	83	82	88	85	80	82	84	92	90	82	83	83	76	84.1	
Chatsworth.....	Minimum...	71	76	64	56	57	70	62	55	59	67	60	43	53	59	69	68	66	68	70	67	67	68	68	69	61	70	69	69	71	69	68	64.7	
Clayton.....	Maximum...	92	96	81	84	87	88	89	86	79	90	74	80	84	81	76	79	77	81	83	80	82	89	86	86	88	92	90	85	82	80	76	84.0	
Clayton.....	Minimum...	67	76	62	56	65	69	68	66	59	60	60	48	53	61	54	67	66	67	70	69	69	67	70	63	68	71	65	67	70	76	66	64.8	
Dover.....	Maximum...	99	95	83	83	85	87	88	91	90	90	77	79	81	82	79	86	78	80	79	86	91	84	75	84	85	91	80	76	85	85	80	84.3	
Dover.....	Minimum...	70	70	60	54	59	69	58	61	68	55	63	69	67	67	66	69	67	66	69	68	67	68	68	64	63	70	68	65	69	70	64	64.1	
Flemington.....	Maximum...	99	92	81	87	82	90	90	92	90	88	77	82	88	82	79	87	79	80	78	91	93	87	80	83	84	93	78	76	89	84	77	85.1	
Flemington.....	Minimum...	71	71	60	54	61	69	60	60	62	65	56	47	57	64	71	65	64	70	69	71	67	68	68	67	65	70	69	65	69	70	65	64.8	
Fort Dix, A. A. B.*.....	Maximum...	97	91	80	80	85	87	85	88	87	88	73	73	80	82	78	80	79	83	81	83	88	85	73	81	84	89	82	73	83	80	76	82.4	
Fort Dix, A. A. B.*.....	Minimum...	71	64	60	54	57	68	59	58	61	64	56	46	54	62	67	65	64	68	67	68	66	66	66	64	61	69	67	65	68	66	63	63.0	
Hammonton.....	Maximum...	99	96	83	87	84	90	85	88	90	89	64	80	83	79	82	80	78	82	84	85	90	81	89	82	85	92	82	85	84	79	75	84.9	
Hammonton.....	Minimum...	73	78	65	57	57	69	63	61	62	68	59	46	46	61	67	65	63	66	68	67	68	67	66	68	62	69	66	67	60	68	67	64.5	
Hightstown.....	Maximum...	98	92	81	84	85	85	85	87	88	87	74	80	82	80	79	82	77	82	80	85	88	84	80	79	84	89	74	72	82	78	72	82.4	
Hightstown.....	Minimum...	71	64	61	54	61	69	61	58	62	64	56	47	54	59	67	67	66	67	69	69	68	66	68	63	71	69	66	69	68	64	64.0		
Indian Mills.....	Maximum...	98	95	82	83	87	87	85	88	88	90	73	80	82	79	78	78	79	80	80	82	89	86	82	83	85	92	80	81	84	77	72	83.4	
Indian Mills.....	Minimum...	72	69	63	52	59	70	61	57	59	66	58	41	51	59	69	67	67	69	69	68	67	67	69	68	62	70	68	68	71	69	67	64.3	
Jersey City*.....	Maximum...	90	88	80	75	76	88	84	85	78	84	70	70	72	73	78	74	75	78	77	76	87	74	71	79	77	87	75	78	75	70	77.8		
Jersey City*.....	Minimum...	73	65	62	60	65	70	64	66	70	68	59	54	64	64	69	68	66	69	70	70	70	70	68	65	65	72	68	68	68	66	66	65.5	
Lakewood.....	Maximum...	94	90	78	80	84	86	84	87	87	91	73	79	80	80	77	75	82	84	84	85	83	76	78	82	86	80	73	81	76	74	81.5		
Lakewood.....	Minimum...	73	68	64	55	58	71	61	60	60	67	60	47	53	62	69	67	66	70	69	68	68	66	68	67	68	71	70	72	69	71	69	65.5	
Lambertville.....	Maximum...	95	92	80	85	83	86	85	87	86	88	72	79	85	83	78	82	78	81	77	86	90	84	82	79	83	92	81	74	84	85	77	83.2	
Lambertville.....	Minimum...	73	67	52	53	60	68	63	60	64	66	55	48	57	65	70	66	66	70	68	68	67	66	68	67	65	69	67	65	69	66	64.5		
Layton.....	Maximum...	92	85	76	80	80	85	85	84	86	83	72	76	82	79	73	77	72	74	78	85	88	77	72	81	83	85	81	73	83	84	80.0		
Layton.....	Minimum...	65	62	53	49	55	64	55	60	61	63	51	47	50	57	68	62	62	68	67	67	61	64	66	65	66	65	60	64	63	60	60.8		
Little Falls/.	Maximum...	97	88	82	83	87	87	87	88	87	86	75	78	80	82	83	77	79	80	87	88	90	82	80	85	83	89	82	78	88	84	73	83.3	
Little Falls/.	Minimum...	70	68	59	54	58	69	57	58	63	69	56	46	56	60	72	67	67	66	67	68	68	67	67	64	63	69	68	64	65	69	62	63.7	
Long Branch*.....	Maximum...	94	89	81	79	80	87	83	88	83	91	74	75	78	78	80	77	77	82	83	86	81	75	80	82	85	75	72	85	77	76	81.3		
Long Branch*.....	Minimum...	74	67	64	57	62	71	62	62	63	65	53	49	55	66	68	68	66	68	70	69	69	68	67	62	70	69	67	69	68	65.4			
Long Valley/.	Maximum...	88	94	78	82	78	85	83	85	83	84	71	77	81	80	76	77	78	85	87	81	74	82	78	87	80	74	83	80	72	80.1			
Long Valley/.	Minimum...	63	56	64	44	52	64	51	50	56	60	48	38	45	58	60	66	61	63	61	60	61	60	64	63	62	59	58	65	59	5			

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. L AUGUST 1945. No. 8

GENERAL SUMMARY.

Temperature for August averaged slightly below normal and 2° cooler than for July. There were only a few days with readings of 90° or higher. The hottest weather was generally during the last three days. There was much sultry weather, however, with considerable cloudiness, and sunshine was below normal. The month was decidedly more pleasant, nevertheless, than July preceding, which was one of the wettest and cloudiest summer months of record in this area. The period, August 16th to 18th was quite cool with minima in the upper forties at northern stations.

This was the first month since April with precipitation below normal, but the deficiency was only 7 percent. Rainfall was much heavier, as a rule, in the northern one-third of the State, though the two greatest monthly amounts were at Millville and Belleplain in the south with 7.00 and 7.63 inches respectively. There was very little rain from the 8th to 23d, and the heaviest rains generally occurred on the 24th to 25th. The lessening of rainfall this month permitted more adequate cultivation and crop conditions were somewhat improved by the close of the month. There were no destructive storms.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 41 stations, was 71.2°, which was 0.8° below normal. The highest temperature was 97° at Flemington on the 29th, and the lowest, 40°, at Boonton on the 25th. The highest monthly average temperature was 73.2° at Burlington, and the lowest, 67.5° at Boonton. The temperature departure from the normal for the year 1945, to date, for the State, is +0.7°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 62 stations, was 4.37 inches, which was 0.35 inch below normal. The greatest monthly precipitation was 7.63 inches at Belleplain, and the least, 1.97 inches at Toms River. The greatest amount of precipitation in any 24 consecutive hours was 2.51 inches at Newton on the 24th. The average for the Highlands was 5.43 inches; for the Red Sandstone Plain, 4.13 inches; for the Southern Interior, 4.48 inches; and for the Sea Coast, 3.62 inches. The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, +12.47 inches; Red Sandstone Plain, +4.88 inches; Southern Interior, -0.07 inch; Sea Coast, -0.98 inch.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 2, 7, 8, 13, 14, 15, 20, 21, 26.

THUNDERSTORMS: 1, 3, 6, 7, 8, 9, 10, 11, 15, 25, 26, 27, 31.

HAIL: 26.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.27	13	29.68	7	13.7	38	w.	3	84	72	79	65	0
Long Branch.....	30.27	13	29.68	7	10.2	29	n.w.	28	85	59	74	65	4
Trenton.....	30.26	13	29.68	6	7.2	32	n.w.	25	85	56	67	60	9

COMPARATIVE DATA FOR AUGUST.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	71.7	95	40	6.11	0	.....	.....	.....	.....
1886.....	69.5	96	42	2.81	0	.....	.....	.....	.....
1887.....	70.4	94	42	3.76	0	.....	.....	.....	.....
1888.....	72.5	98	41	6.13	0	.....	.....	.....	.....
1889.....	69.6	91	45	5.13	0	.....	.....	.....	.....
1890.....	71.5	99	40	4.90	0	11	8	15	8
1891.....	72.8	100	46	5.32	0	13	8	11	12
1892.....	73.4	99	46	3.63	0	9	12	13	6
1893.....	72.8	98	38	6.52	0	8	14	11	6
1894.....	70.9	97	44	2.58	0	7	13	12	6
1895.....	74.2	102	34	2.53	0	7	16	12	3
1896.....	73.6	105	39	1.83	0	7	17	10	4
1897.....	71.0	91	41	4.39	0	9	14	12	5
1898.....	74.8	98	42	5.36	0	10	12	12	7
1899.....	72.3	99	39	4.36	0	9	10	12	9
1900.....	76.3	104	41	2.68	0	10	15	11	5
1901.....	73.8	98	44	9.43	0	11	12	10	9
1902.....	70.1	93	40	3.91	0	9	15	13	3
1903.....	68.4	98	39	6.95	0	13	10	10	11
1904.....	70.8	92	37	6.62	0	9	15	10	6
1905.....	71.1	95	38	5.72	0	12	13	10	8
1906.....	74.6	97	42	5.95	0	13	10	11	10
1907.....	70.5	96	39	3.45	0	10	14	12	5
1908.....	70.6	103	36	5.05	0	10	11	10	10
1909.....	70.2	100	34	4.59	0	6	14	9	8
1910.....	70.4	92	36	3.78	0	10	9	10	12
1911.....	72.1	101	39	8.91	0	11	10	11	10
1912.....	70.0	95	35	3.42	0	10	12	13	6
1913.....	71.7	100	38	4.06	0	10	18	9	4
1914.....	73.3	98	46	3.15	0	9	13	12	6
1915.....	70.9	98	41	7.73	0	13	11	11	9
1916.....	73.2	100	40	1.34	0	6	20	7	4
1917.....	74.0	103	42	2.21	0	8	18	9	4
1918.....	74.4	108	40	1.85	0	7	13	7	6
1919.....	69.9	98	38	6.89	0	13	13	10	8
1920.....	72.3	94	42	6.10	0	17	8	11	12
1921.....	69.8	97	38	4.32	0	9	18	7	6
1922.....	71.2	96	39	4.03	0	12	13	9	9
1923.....	70.8	98	35	2.44	0	8	17	8	6
1924.....	71.9	102	38	4.40	0	8	18	8	5
1925.....	71.0	93	35	2.10	0	7	20	6	5
1926.....	72.8	101	38	6.58	0	14	11	9	11
1927.....	67.1	89	37	8.55	0	12	11	9	11
1928.....	74.5	99	45	6.72	0	13	12	8	11
1929.....	69.8	97	39	2.58	0	9	16	8	7
1930.....	71.1	101	34	3.32	0	6	16	9	6
1931.....	73.5	101	45	5.10	0	12	12	8	11
1932.....	73.5	99	44	2.75	0	7	20	7	4
1933.....	72.7	101	45	10.53	0	14	12	9	10
1934.....	69.8	100	33	3.61	0	10	14	8	9
1935.....	72.4	98	36	2.57	0	8	14	10	7
1936.....	74.2	101	44	4.14	0	10	14	9	8
1937.....	75.2	100	45	6.82	0	14	14	7	10
1938.....	75.4	100	41	3.09	0	8	18	8	5
1939.....	75.3	98	50	7.03	0	11	11	9	11
1940.....	69.4	95	32	5.96	0	12	10	9	12
1941.....	71.0	97	34	4.06	0	9	20	7	4
1942.....	71.3	98	35	8.24	0	11	13	8	10
1943.....	73.2	99	39	2.16	0	6	18	8	5
1944.....	73.9	104	35	2.79	0	6	17	8	6
1945.....	71.2	97	40	4.37	0	8	16	8	7
Period.....	72.0	108	32	4.72	0	10	13	10	8

Climatological Data for August 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	72	72.6	+0.1	92	15	54	27	4.08	-0.41	1.32	15	0	8	9	10	12	s.	U. S. Weather Bureau.
Barnegat City	Ocean	36	6	71.9		92	29	57	16†	3.40		2.14	24-25	0	5					U. S. Coast Guard.
Belleplain	Cape May	49	51			92	21†			7.63	+3.15	2.42	4	0	11	18	6	7	sw.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	5							3.66		1.50	24	0	9				w.	City Water Dept.
Belvidere	Warren	289	53	71.6	+0.3	94	30	49	16†	5.92	+1.10	2.37	24	0	6	16	7			Miss C. S. Hixson.
Berlin	Camden	70	4							5.34		2.00	6	0	10	24	2	5		Samuel H. McCulley.
Boonton	Morris	280	55	67.6	-2.9	92	31	40	25	6.56	+2.11	1.96	24-25	0	6	18	0	13	nw.	John Kline.
Bridgeton	Cumberland	30	62	72.8	-1.9	93	30	51	27	4.97	+0.33	1.50	6	0	10	16	10	5	se.	Bennett K. Matlack.
Brooklawn	Camden	30	4							4.30		1.47	25	0	6					C. D. Scott.
Burlington	Burlington	12	59	73.2	-1.1	94	30	53	16	4.65	+0.72	0.82	23-24	0	9	21	2		w.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	15			94	31			5.92	+0.66	2.31	31-1	0	7	18	8	5	w.	N. J. Dept. of Conservation.
Cape May	Cape May	17	57	72.6	-0.8	90	15	58	16	2.86	-1.68	0.86	1	0	10	10	14	7	sw.	Naval Air Station.
Charlotteburg††	Passaic	760	53	68.5	+0.2	90	31	45	16†	5.54	+0.91	2.31	24-25	0	8	11	3	17	w.	Newark Water Dept.
Chatham	Morris	185	41							6.55	+1.67	1.67	24-25	0	7	17	8	6		Edward P. Molitor.
Chatsworth	Burlington	90	5	71.2		94	29	50	16†	4.37		2.14	6	0	7	15	12	4	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	32	71.0	-2.3	95	30	50	29	4.89	-0.25			0	7	13	8	10	w.	Worthy Hitt.
Clinton	Hunterdon	300	2							5.58		1.93	24	0	7	12	8	11	sw.	L. W. Klockner.
Culvers Lake††	Sussex	760	44							5.08	+0.55	2.50	24	0	7					L. S. Depue.
Dover	Morris	600	61																	William C. Harris.
Elizabeth	Union	34	66	72.5	-0.9	95	29†	50	16†	3.30	-1.07	1.25	23-24	0	7	22	1	8	ne.	Union County Park Comm.
Flemington, 2 mi. N.E.	Hunterdon	140	59	73.0	+0.2	97	29	54	16†	5.44	+0.70	1.59	24	0	7	21	4	6	n.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120	1																	A. A. B. Weather Station.
Freehold	Monmouth	191	41	70.4	-2.6	92	30	48	16	3.44	-1.05	0.80	6-7	0	9	22	5	4	sw.	Morau Plant Co.
Hammononton	Atlantic	95	39	72.2	-2.0	95	30	48	27	4.56	-0.13	1.91	7	0	10	13	11	7	sw.	J. G. Wilson.
Hightstown	Mercer	110	52	70.9	-1.3	93	30	50	16	3.65	-0.99	1.96	25-26	0	10	15	11	5	w.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington	100	56	71.2	-1.4	94	30	48	16	4.02	-1.77	1.55	6-7	0	11	14	13	4	sw.	Edward Entwistle.
Jersey City	Hudson	81	47	71.4	-2.6	92	30	54	24†	2.18	-2.26	1.04	6	0	4	18	5	8	sw.	J. C. Water Dept.
Lakewood	Ocean	54	41	71.0	-0.5	89	22†	52	16†	2.79	-2.42	1.34	7	0	10	13	10	8	sw.	R. W. Holman.
Lambertville	Hunterdon	75	58	71.0	-1.3	92	30	50	16	3.79	-0.84	1.35	24	0	8	13	8	10	sw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex	480	44	68.8	+0.1	90	29†	42	16	5.13	+0.96	2.26	24-25	0	8	17	4	10	sw.	A. M. Depue.
Little Falls	Passaic	157	42	69.0	-3.1	94	30	49	16	5.12	+0.83	1.90	24	0	8	19	8	4	w.	Passaic Valley Water Co.
Long Branch	Monmouth	34	37	71.2	-0.3	92	30	53	27	4.10	-0.71	1.40	25	0	8	16	8	7	s.	Storm Warn. Display Sta.
Long Valley	Morris	660	15	67.8	-1.7	92	30	45	18	5.80	+0.77	2.20	24	0	7	16	12	3	w.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	4							3.93		1.02	25	0	10	16	8	7	sw.	David Griscom.
Mays Landing	Atlantic	50	1							4.64		0.98	3-4	0	11	14	12	5	sw.	Elmer Earle.
Millville	Cumberland	69	5							7.00		1.63	3	0	11	14	10	7		Paul Ritchie.
Moorestown	Burlington	62	82	71.0	-1.7	91	29†	54	16†	3.99	-0.92	1.21	6	0	10	16	3	12	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	500	4							6.72		2.00	31-1	0	6	22	5	4		James C. Long.
Newark	Essex	10	91	72.4	-0.6	95	29	54	24†	2.62	-2.30	1.04	6	0	5	11	9	11	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	91	71.8	-0.4	91	30	53	16	2.66	-2.35	0.98	23-24	0	6	19	8	4	se.	N. J. Experiment Station.
New Milford††	Bergen	12	27							4.66	+0.12	2.49	24	0	5					Hackensack Water Co.
Newton	Sussex	769	62	68.9	-1.5	90	30	45	16	5.73	+1.35	2.51	24	0	11	8	11	12	sw.	Irving J. Kern.
Orange††	Essex	140	5							3.65		1.68	23-24	0	5					County Engineer.
Paterson	Passaic	95	74	71.8	-0.4	93	31	51	16	4.49	-0.26	2.40	24	0	5	15	10	6	w.	J. W. Cook.
Pemberton	Burlington	55	16	72.6	-1.8	93	30	52	27	5.14	+0.36	2.30	3	0	12	16	11	4	s.	Charles A. Doehrlert.
Phillipsburg	Warren	182	62	70.5	-1.3	93	30	49	16	5.10	+0.50	2.06	23-24	0	7	13	12	6		Town Engineer.
Plainfield	Union	120	57	71.4	-0.4	92	29†	52	16	4.09	-0.96	1.06	6	0	7	12	11	8	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	4							2.82				0	6					Walker-Gordon Lab.
Pleasantville††	Atlantic	8	47	71.4	-0.8	93	29	52	27	5.29	+0.13	1.35	24-25	0	9	10	11	10	s.	N. J. Dept. of Conservation.
Rahway	Union	20	6							2.31		0.88	24	0	7	17	6	8	nw.	Louis Fontenelli.
Ridgefield	Bergen	80	28	71.4	-0.4	93	29†	50	16	3.09	-1.38	1.34	6	0	5	15	10	6	nw.	George P. Kirsten.
Runyon††	Middlesex	18	22	71.4	-0.3	91	31	48	3†	2.60	-2.12	0.74	26	0	8	17	9	5	w.	N. J. Dept. of Conservation.
Rutherford	Bergen	51	1	71.0		92	31	50	16	3.68		1.96	23-24	0	8	9	10	12	s.	Harold Scott.
Sandy Hook	Monmouth	15	47	73.0	+0.5	92	22	58	24†	2.39	-2.59	0.84	6	0	6	14	4	13	s.	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	62	72.2	-0.1	91	30†	58	5†	4.66	-0.15	1.80	31-1	0	6	9	17	5	w.	Joseph Starkman.
Sussex	Sussex	450	50	71.2	+1.2	94	20	45	16	5.16	+0.69	2.05	24	0	10	13	6	12	w.	Marshall Hunt.
Toms River	Ocean	33	24							1.97	-3.74	1.10	23-24	0	6					Robt. F. Snyder.
Trenton	Mercer	56	73	72.6	-0.4	93	30	54	25	2.27	-2.43	0.85	25	0	7	9	12	10	s.	U. S. Weather Bureau.
Trenton No. 2	do.	105	15	72.2	-1.3	93	30	53	16	2.84	-2.06	1.08	25	0	5					Edward H. Ristow.
Tuckerton	Ocean	23	52	72.3	-0.4	95	29	50	27	4.28	-1.25	2.38	6-7	0	8	22	4	5	sw.	John H. Brown.
Vineland	Cumberland	110	65							5.61	+0.87	1.45	3-4	0	10	21	6	4	sw.	Robert Jones.
Westfield	Union	145	6							2.79		1.14	6	0	5	18	5	8	sw.	Town Engineer.
Woodcliff Lake††	Bergen	103	27							4.58	+0.28	2.39	24	0	5					Hackensack Water Co.
Woodstown	Salem	16	10							5.75		1.20	24	0	8	23	4	4	n.	Geo. S. Keen.
New York, N. Y.		10	75	72.8	-0.3	92	30	55	25	2.25	-2.08	0.90	6	0	5	14	7	10	s.	U. S. Weather Bureau.
Philadelphia, Pa.		10	75	74.1	-0.7	95	30	55	25	3.75	-0.87	1.53	1	0	7	15	8	8	sw.	U. S. Weather Bureau.
For the State				71.2	-0.8	97	29	40	25	4.37	-0.35	2.51	24	0	8	16	8	7	sw.	

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for August 1945

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast	.26	T.	.82			.87	.14								1.32							T.	T.	.05	.58	.04						4.08	
Barnegat City ⁴	do.	.06					.78																	T.	T.	2.14	.38	.04					3.40	
Belleplat	Tuckahoe	1.01	.08		2.42		.76	.04	.38	.05				20											1.90	.19	.60						7.63	
Belmar ²	Coast	.11	T.				1.04	.35	T.	T.					.08	.01								T.	.06	1.50	.55	.01	T.				3.66	
Belvidere.	Delaware.	.97	T.				1.64	T.			T.	.03				T.	.40							T.	2.37	.15	.76						5.92	
Berlin	Mullica	.03	.17	.40			2.00	.34	T.														14	.16	.94	.76					T.		5.84	
Boonton ³	Passaic	1.10	1.08				1.50	T.	.65	T.						T.									.35	1.96	.42						6.56	
Bridgeton	Delaware	.64	.18	T.	.70		2.00	T.	.16	T.							.34							.29	.33	.10	.73						4.97	
Brooklawn	do.	.77			.96		.53		.20															T.	.37		1.47						4.30	
Burlington	do.	.42		.45	T.		.26	.30									.60							.50	.82	.80	.50						4.65	
Canoë Brook ³	Passaic	1.30	1.01				1.17				.02														.48	1.58	.36						5.92	
Cape May [†]	Coast	.86	T.	.26			.05	.43	.02								.22							.20	.17	.44	.21						2.86	
Charlotteburg.	Passaic	.50					.67	.75			.05												.81		1.78	.53	.37						5.54	
Chatham ³	do.	1.23	1.44				1.34				.02														.42	1.67	.43						6.55	
Chatsworth	Coast	.13		.44			2.14	.30	.10																	1.00	.26						4.37	
Clayton	Delaware	.42			.46					.07				1.58		.46	T.								.90	.22	.85						4.89	
Clinton.	Raritan	1.85					.94	.12	T.	.07															1.93	.09	.58						5.58	
Culvers Lake	do.	.03					1.56	.03		.02	T.														2.50	.46	.48						5.08	
Dover.	Passaic																																	
Elizabeth	Coast	.34					.50	.47		.18							T.							T.	1.25	.15	.41						3.30	
Essex Fells	Passaic																																	
Flemington.	Raritan.	1.33					.79	.29		.37							T.								T.	1.59	.15	.92						5.44
Fort Dix, A.A.B. ²	Delaware																																	
Freehold.	Raritan	.02	T.				.72	.80						T.	.13	.05									.01	.79	.16	.76					3.44	
Hammonton	Mullica	.35		.15	.21		.19	1.91	.05							.08								.11	.91		.60						4.56	
Hightstown	Raritan	.03	.04	T.			.73	.15	T.					.02	T.	.01									.06	.60	.05	1.96					3.65	
Indian Mills	Mullica	.09		.31			1.00	1.55	T.							T.	.29								.06	.52	.14	.55				.04	4.02	
Jersey City ²	Coast.	.04					1.04				T.												.02		.06	.52	.14	.55					2.18	
Lakewood	Metedeconk	.05					.38	1.34	.04							.03	.06								.05	.10	.27	.47					2.79	
Lambertville	Delaware	1.08					.54	.05		.07															T.	1.35	.09		.06			.55	3.79	
Layton	do.	.01					1.63	.02	.16		.25															2.26	.36	.44					5.13	
Little Falls ³	Passaic	.25	.40				1.55			.01							.05									.63	1.90	.33					5.12	
Long Branch [†]	Coast	T.		.54			.67	.32								T.	.02								.06	1.07	1.40	.02					4.10	
Long Valley ³	Raritan	.42	.52				1.57		.33		.28															.20	.20	.48					5.80	
Manville	do	1.60					.86	.02																	.06	1.13	.61						4.28	
Marlton.	Delaware.	.33			.52		.36	.66								.04									.04	.78	.04	1.02					3.93	
Mays Landing.	Gt. Egg Harbor.	.56	T.	.30	.68		.67	.07	.16	.09				T.		.50							T.	.14	.04	.77	.18	.66					4.64	
Midland Park	Passaic.	.19					1.57									.04										2.46	.30	.07					4.63	
Millville [†]	Maurice	.50	.62	1.63			1.09	.50	.15								.77								.05	.98	.67	.04					7.00	
Moorestown ³	Delaware.	.36	.26		.29		.02	1.19	.16								.05								.13	.91	.62					T.	3.99	
Morris Plains.	Passaic	2.00	T.				1.44	.49	T.																T.	1.89	.44	.46					6.72	
Newark ¹	Coast	.07					1.04		T.	T.						T.	T.								.02	1.00	.49	T.					2.62	
New Brunswick	Raritan	.15	T.				.42	.41	T.							T.	T.								T.	.98	.05	.66					2.66	
New Milford ^{2†}	Hackensack	.18					1.68									.11										2.49	.20						4.66	
Newton	Delaware.	.25					1.73	.11		.14	.01				.03	.05										2.51	.23	.66	.01				5.73	
Orange ^{2†}	Passaic.	.29					1.29																			01	1.67	.39					3.65	
Paterson ²	do.	.35	T.				1.38									.06										T.	2.40	.30	T.				4.49	
Pemberton	Delaware.	.10	.03		2.30		.39	.74	.09							T.	.07									.01	.35	.40	.65			.01	5.14	
Phillipsburg.	do.	1.04	T.				.88	.32		T.	.17	T.				T.	T.									T.	2.06	.60	.03				5.10	
Plainfield.	Raritan	1.03					1.06	T.		.07						T.	T.								.03	.97	.35	.58					4.09	
Plainsboro	do.	.15					.42		.20	.15																*	1.90	T.					2.82	
Pleasantville ³	Coast	.13	.13		.93		.62		.85	.05						1.20										.02	1.35	.60					5.29	
Rahway [†]	Rahway	.24					.62		.11																.04	.88	.38	.04					2.31	
Ridgefield.	Hackensack						1.34	T.								T.									.01	1.29	.20	.25					3.09	
Ringwood	Passaic.																																	
Runyon	Coast						.45	.47							.12	.06									.06	.54	.16	.74					2.60	
Rutherford.	Passaic	.09	.01				1.29	.01	T.							T.										.01	1.96	.09	.22				3.68	
Sandy Hook ^{2†}	Coast	T.		.20			.84	T.	T.	T.					.05	.02									T.	.69	.59	T.					2.39	
Somerville	Raritan	1.80					.34	.30		T.						T.										1.49	.08	.65					4.66	
Sussex.	Hudson	.07	.02				1.76	.06	.15	.01					.07											2.05	.47	.50					5.16	
Toms River.	Coast	T.					.37	.20								.05									.23	1.10	.02						1.97	
Trenton ^{1†}	Delaware.	.16	T.				.45	T.		T.				.01	T.	.01									.13	.66	.85					T.	2.27	
Trenton No. 2 ²	do.	.24	T.				.60	T.							T.	T.									.08	.84	1.08					T.	2.84	
Tuckerton	Coast	.33					.40	1.98								.28										.26	.71	.24					4.28	
Vineland	Maurice	.62	.11	.45	1.00		1.15	.25								.53									.10	.85	.55						5.61	
Wanaque.	Passaic.	.67					1.51		.02	.05																2.47	.37						5.09	
Westfield ^{3†}	Rahway						.14	1.00																		*	1.25	.40					2.79	
Woodcliff Lake ^{3†}	Hackensack	.16					1.58									.22																		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. ⁴ Precipitation is from 1:30 a. m. to 1:30 a. m. † Hourly amounts available. * Included in the next following measurement. T, Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

§§ Incomplete.

Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

Canoe Brook ³	Evaporation.....	0	.034	.160	.192	.192	*	.050	.080	.068	.176	.144	.112	.128	.032	.144	.176	.144	.128	.128	.144	.128	.160	.000	*	*	.020	.144	.128	.128	.096	.080	3.116
	Wind movement.....	0	0	2	4	1	1	1	0	1	0	1	0	1	4	1	1	0	1	0	1	0	2	1	3	2	10	8	0	0	0	1	47
Pleasantville ³ ...	Evaporation.....	.002	.176	.178	.256	.192	.048	.146	.128	.192	.192	.160	.176	.192	.240	.160	.240	.144	.176	.128	.240	.224	.192	1.0	.00	.326	.088	.272	.192	.224	.176	.160	5.512
	Wind movement.....	21	32	22	28	23	45	29	15	16	19	25	5	20	33	36	36	15	10	15	12	15	7	36	27	31	54	37	20	7	9	10	684
Runyon.....	Evaporation.....	.080	.080	.120	.120	.110	.000	.020	.080	.160	.180	.220	.220	.210	.220	.180	.120	.120	.150	.150	.140	.140	.160	.160	.315	.010	.040	.180	.200	.200	.200	.250	4.585
	Wind movement.....	9	8	8	10	6	7	6	9	16	8	23	22	7	7	10	12	10	10	9	10	11	10	9	11	9	10	10	10	20	20	24	287

³ Observations taken in morning, and entered on preceding day.

** Pan overflowed.

Daily Temperatures for August 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*	Maximum...	74	77	81	83	76	77	74	75	80	84	80	81	82	92	74	75	75	77	79	83	84	75	72	72	72	79	79	85	84	88	78.8	
	Minimum...	71	70	69	64	63	67	65	64	62	68	69	73	74	67	58	64	64	66	66	69	73	70	66	58	59	54	64	70	75	73	66.5	
Barnegat City†	Maximum...	74	79	84	80	76	74	77	74	75	78	86	79	82	82	88	75	74	77	79	87	85	76	70	69	70	77	79	92	87	88	79.0	
	Minimum...	69	70	70	64	62	66	64	66	64	62	68	67	70	70	62	57	62	61	63	66	66	69	67	59	59	57	59	66	72	72	64.8	
Belleplain	Maximum...	77	81	82	80	80	79	83	82	79	77	79	81	85	82	91	77	77	85	86	90	92	92	80	70	82	75	78	88	91	89	82.6	
	Minimum...	76	85	92	75	84	72	82	77	83	87	91	87	90	87	81	83	85	88	90	90	90	76	67	71	70	81	89	93	94	91	83.5	
Belvidere	Maximum...	65	66	70	53	54	63	59	60	60	59	60	62	62	67	61	49	55	55	58	59	63	65	63	55	54	54	49	55	63	65	59.6	
	Minimum...	72	81	83	78	80	70	80	77	78	87	90	84	84	85	82	79	79	83	84	87	85	87	72	58	69	73	75	83	89	92	80.2	
Boonton/	Maximum...	64	63	65	55	55	58	59	62	59	54	59	58	69	62	63	48	48	48	48	49	49	43	43	41	40	51	56	53	55	65	55.1	
	Minimum...	78	82	88	80	80	76	85	81	82	85	88	85	86	90	83	80	80	82	85	86	88	92	82	69	75	70	76	87	90	93	90	83.0
Bridgeton	Maximum...	69	65	68	57	58	66	66	62	60	59	60	62	66	74	69	56	58	58	59	59	64	68	63	62	56	56	51	56	61	70	68	62.1
	Minimum...	74	83	88	82	81	80	84	78	83	87	89	87	89	86	79	80	84	84	89	88	92	89	68	75	75	78	89	92	94	92	84.1	
Burlington	Maximum...	67	66	68	57	68	65	63	75	61	57	62	64	65	67	73	53	56	54	59	58	65	67	64	58	54	58	55	54	62	68	70	62.4
	Minimum...	71	82	92	82	82	71	82	75	81	89	92	90	89	89	87	83	85	86	86	90	91	90	73	57	72	69	72	75	74	94	81.5	
Canoe Brook/	Maximum...	78	79	80	79	75	77	79	78	77	75	81	78	80	80	90	76	76	77	78	79	80	85	78	77	73	69	74	77	82	80	82	78.4
	Minimum...	72	67	72	63	62	71	71	63	63	62	67	69	73	73	72	58	62	63	63	66	69	71	67	67	62	62	62	65	70	72	71	66.8
Cape May*	Maximum...	70	78	88	88	84	78	78	79	85	88	89	84	84	82	76	79	81	84	87	86	85	84	71	69	68	73	85	89	88	90	81.5	
	Minimum...	60	61	64	55	48	58	58	59	54	49	53	55	55	54	45	45	45	45	49	49	58	64	61	54	54	47	68	69	62	55.5		
Charlotteburg	Maximum...	74	83	87	85	80	78	82	80	81	85	88	86	85	87	89	80	79	83	85	89	90	93	88	66	72	69	75	88	94	92	92	83.4
	Minimum...	68	64	67	53	56	62	62	61	67	54	57	69	63	65	72	50	50	51	53	53	59	62	64	52	50	56	52	50	56	66	68	59.1
Chatsworth	Maximum...	78	83	87	84	86	82	83	80	83	89	89	87	89	86	87	89	86	80	87	85	88	92	85	67	62	76	78	87	85	95	88.8	
	Minimum...	70	64	67	56	54	55	62	62	57	55	60	60	55	66	53	54	54	54	55	54	61	65	63	59	54	50	57	52	50	59	67	58.2
Clayton	Maximum...	76	84	90	85	84	79	85	80	83	91	93	90	88	87	87	83	80	84	86	92	92	94	85	68	72	72	80	87	95	95	85.2	
	Minimum...	65	67	62	54	55	62	61	63	60	57	60	63	63	65	72	50	55	54	58	56	63	65	66	56	53	53	50	54	60	66	67	59.8
Dover	Maximum...	71	86	95	89	87	80	84	78	82	90	84	83	85	90	88	90	86	88	90	93	90	86	76	72	83	89	97	96	95	86.1		
	Minimum...	65	66	70	55	56	63	59	62	62	56	60	62	64	65	61	54	55	54	57	57	56	65	66	56	54	56	55	55	60	67	67	60.0
Elizabeth	Maximum...	76	84	90	85	84	79	85	80	83	91	93	90	88	87	87	83	80	84	86	92	92	94	85	68	72	72	80	87	95	95	85.2	
	Minimum...	65	67	62	54	55	62	61	63	60	57	60	63	63	65	72	50	55	54	58	56	63	65	66	56	53	53	50	54	60	66	67	59.8
Flemington	Maximum...	71	86	95	89	87	80	84	78	82	90	84	83	85	90	88	90	86	88	90	93	90	86	76	72	83	89	97	96	95	86.1		
	Minimum...	65	66	70	55	56	63	59	62	62	56	60	62	64	65	61	54	55	54	57	57	56	65	66	56	54	56	55	55	60	67	67	60.0
Fort Dix, A. A. B.*	Maximum...	75	83	88	83	71	78	83	76	79	87	90	86	85	86	82	78	77	82	83	87	90	84	65	73	70	77	85	91	92	91	82.4	
	Minimum...	65	65	65	53	52	60	59	62	56	55	60	61	62	64	66	48	52	51	54	55	62	65	62	56	53	54	49	52	62	66	67	58.5
Freehold	Maximum...	77	86	88	81	80	88	84	82	83	89	90	88	87	88	90	82	80	85	84	86	89	94	81	69	79	76	79	88	93	95	83.0	
	Minimum...	67	62	67	65	64	69	52	55	59	53	61	60	63	65	65	51	51	55	53	62	64	61	60	54	54	48	54	62	65	67	59.5	
Hammonton	Maximum...	72	82	87	81	81	73	83	75	78	88	90	87	88	87	85	80	78	84	83	89	87	91	76	63	73	69	77	85	89	93	92	82.1
	Minimum...	65	66	67	55	54	63	59	63	58	56	62	64	64	69	50	54	52	56	55	64	66	62	57	54	54	52	54	61	67	66	59.7	
Hightstown	Maximum...	73	85	87	81	81	74	83	80	83	88	88	87	86	87	88	80	79	85	87	88	89	92	76	66	75	70	77	87	93	94	83.2	
	Minimum...	68	64	67	52	53	63	64	62	57	52	60	59	63	66	68	48	50	52	52	54	61	63	63	60	55	55	51	52	63	69	68	59.2
Indian Mills	Maximum...	72	76	86	79	80	70	77	75	76	84	88	84	78	80	84	74	74	75	80	80	87	89	73	64	64	68	76	84	90	92	79.0	
	Minimum...	66	68	69	60	58	66	62	63	64	62	66	68	69	70	63	60	60	60	60	63	70	64	54	54	58	56	61	70	72	70	63.7	
Lakewood	Maximum...	73	82	87	82	80	75	81	75	77	85	86	87	85	87	87	77	75	80	80	85	87	89	83	65	69	69	77	87	89	89	88	81.2
	Minimum...	68	69	67	55	56	63	61	61	57	55	66	64	62	64	70	52	53	53	55	56	65	67	65	60	57	56	52	53	63	69	69	60.7
Lambertville	Maximum...	71	80	91	86	79	76	81	77	75	86	88	86	87	87	83	75	82	83	87	88	88	89	86	65	73	73	75	82	90	92	90	82.3
	Minimum...	66	64	69	55	54	63	60	61	61	57	59	60	63	65	71	50	55	54	57	57	65	64	63	56	54	55	52	51	58	65	59.6	
Layton	Maximum...	72	80	88	79	80	71	79	77	78	82	88	82	84	86	75	78	80	85	85	85	87	85	86	61	63	69	61	75	90	90	89	80.3
	Minimum...	63	64	68	49	48	60	58	56	57	66	59	59	66	61	61	42	47	51	51	57	56	62	60	55	54	54	52	53	60	62	57.2	
Little Falls/	Maximum...	80	83	91	83	83	70	82	82	82	91	93	88	88	86	83	81	79	83	88	90	91	91	59	70	78	87	90	94	93	80.2		
	Minimum...	64	65	67	56	55	62	61	63	59	57	59	62	64	65	72	49	54	53	58	57	63	65	63	56	53	55	55	54	61	64	55.8	
Long Branch*	Maximum...	76	79	88	81	81	73	81	75	77	84	88	87	83	84	86	76	77	76	80	82	89	91	71	66	72	71	77	88	91	92	89.1	
	Minimum...	68	69	67	58	58	65	62	61	58	56	63	65	64	65	62	57	55	54	57	59	66	68	65	58	58	56	53	56	65	70	61.5	
Long Valley/	Maximum...	7																															

CLIMATOLOGICAL DATA

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NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. L.

SEPTEMBER 1945.

No. 9

GENERAL SUMMARY.

The month averaged considerably warmer than normal, but there was no severe heat wave. Many stations did not record as high as 90°, though a few reported around 95°. There was a warm period from the 6th to 14th and another from the 25th to 29th, though the 1st was the warmest day at many stations. The 30th was the coolest day throughout the State when 39° was registered at some stations. The month was entirely free from frost, even in the cranberry bogs, which is unusual for September.

The average precipitation for the State was 24% greater than normal. It was much heavier in the northern half than in the southern half of the State. There was much more than the usual cloudiness for September. Thunderstorms were numerous as were also periods of heavy fog. The heaviest rains were generally around the 18th, in connection with a tropical disturbance which caused very heavy rains and winds of hurricane force in Florida and the South Atlantic States. No destructive winds occurred in this State, though Atlantic City recorded a maximum of 52 miles an hour on 17th. The month was favorable for agricultural activities except for too much rain and wet soil in some northern localities.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 42 stations, was 69.0°, which was 3.2° above normal. The highest temperature was 96° at Runyon on the 7th, and the lowest, 39°, at 3 stations on the 30th. The highest monthly average temperature was 71.6° at Burlington, and the lowest, 65.5° at Boonton. The temperature departure from the normal for the year 1945, to date, for the State, is +1.2°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 60 stations, was 4.68 inches, which was 0.90 inch above normal. The greatest monthly precipitation was 8.85 inches at Plainfield, and the least, 1.77 inches at Tuckerton. The greatest amount of precipitation in any 24 consecutive hours was 3.65 inches at Orange on the 18th. The average for the Highlands was 5.02 inches; for the Red Sandstone Plain, 5.99 inches; for the Southern Interior, 3.54 inches; and for the Sea Coast, 3.10 inches. The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, +13.43 inches; Red Sandstone Plain, +6.82 inches; Southern Interior, -0.24 inch; Sea Coast, -1.19 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 4, 5, 6, 7, 8, 9, 10, 18, 21, 24, 25, 26, 27, 28.
THUNDERSTORMS: 1, 2, 9, 10, 11, 14, 15, 25, 27, 28.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.54	30	29.67	11	14.7	52	ne.	17	88	78	85	53	19
Long Branch.....	30.58	30	29.68	11	10.5	44	e.	18	88	68	78	50	30
Trenton.....	30.57	30	29.67	11	8.2	26	s.	1	86	64	75	46	44

COMPARATIVE DATA FOR SEPTEMBER.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	64.2	93	38	0.83	0	.....	.....	.....	.....
1886.....	66.9	95	36	1.13	0	.....	.....	.....	.....
1887.....	61.6	90	30	3.66	0	.....	.....	.....	.....
1888.....	63.1	84	29	1.09	0	12	.....	.....	.....
1889.....	64.8	90	34	5.36	0	14	.....	.....	.....
1890.....	64.4	91	33	4.75	0	10	10	10	10
1891.....	68.7	95	38	2.46	0	6	16	9	5
1892.....	64.2	90	33	1.81	0	6	15	11	4
1893.....	62.7	90	31	3.20	0	6	12	10	8
1894.....	68.8	97	31	7.46	0	2	10	10	10
1895.....	69.7	109	29	1.07	0	5	17	10	3
1896.....	65.1	95	30	4.37	0	5	19	7	4
1897.....	65.5	99	30	1.65	0	5	19	7	4
1898.....	68.6	100	31	2.00	0	6	17	8	5
1899.....	64.4	93	30	5.88	0	9	15	9	6
1900.....	69.9	98	32	2.86	0	6	14	10	6
1901.....	66.8	94	29	3.38	0	10	15	9	6
1902.....	64.6	93	30	5.65	0	13	11	7	12
1903.....	65.0	92	29	3.34	0	7	17	8	5
1904.....	64.8	93	23	4.79	0	7	14	10	6
1905.....	65.4	90	28	5.23	0	8	16	7	7
1906.....	68.9	94	33	2.19	0	7	15	9	6
1907.....	67.1	92	31	8.08	0	14	10	8	12
1908.....	65.7	90	29	2.09	0	3	11	10	9
1909.....	64.5	89	30	3.30	0	8	11	10	9
1910.....	67.3	97	32	2.39	0	6	12	10	8
1911.....	66.4	90	30	2.88	0	9	10	12	8
1912.....	65.9	87	28	4.47	0	10	12	7	11
1913.....	64.4	96	27	3.87	0	9	13	8	9
1914.....	64.0	99	24	0.37	0	3	21	6	3
1915.....	68.5	97	30	2.08	0	5	17	9	4
1916.....	65.2	98	31	2.84	0	6	20	7	3
1917.....	61.5	87	27	2.74	0	6	16	7	7
1918.....	62.2	90	29	3.84	0	9	14	8	8
1919.....	65.8	96	32	3.26	0	8	16	6	8
1920.....	66.8	90	30	3.87	0	7	17	8	5
1921.....	70.2	99	36	2.35	0	8	15	8	7
1922.....	66.7	95	27	2.26	0	4	19	5	6
1923.....	67.0	90	28	3.78	0	7	14	8	8
1924.....	62.2	99	29	5.42	0	10	13	8	9
1925.....	67.8	96	25	2.92	0	7	11	11	8
1926.....	64.5	93	32	4.18	0	10	14	6	10
1927.....	65.6	97	29	2.66	0	5	19	6	5
1928.....	62.6	90	29	4.52	0	10	12	8	10
1929.....	67.0	100	28	4.74	0	8	14	7	9
1930.....	69.4	95	32	2.14	0	8	16	9	5
1931.....	70.5	100	34	1.98	0	6	19	6	5
1932.....	66.4	100	27	2.29	0	7	16	8	6
1933.....	68.0	93	38	6.07	0	10	12	9	9
1934.....	67.3	91	35	9.00	0	13	10	7	13
1935.....	63.2	89	27	6.12	0	8	15	7	8
1936.....	66.9	94	28	4.30	0	8	12	8	10
1937.....	63.4	98	29	2.63	0	6	19	5	6
1938.....	63.6	95	30	9.67	0	13	12	7	11
1939.....	66.5	98	31	1.49	0	8	15	9	6
1940.....	63.5	93	25	4.41	0	5	17	6	7
1941.....	67.5	98	26	0.28	0	2	21	6	3
1942.....	66.1	96	25	4.55	0	8	16	5	9
1943.....	65.0	98	26	1.85	0	6	15	7	8
1944.....	66.8	99	28	7.93	0	9	12	7	11
1945.....	69.0	96	39	4.68	0	10	11	7	12
Period.....	65.8	109	23	3.78	0	8	15	8	7

Climatological Data for September 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	72	70.2	+3.4	84	15	52	30	2.28	-0.37	1.23	29-30	0	9	5	10	15	s.	U. S. Weather Bureau.
Barnegat City	Ocean	36	6	69.4	.....	85	15†	53	30	2.93	.....	1.48	15	0	5	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain	Cape May	49	51	70.0	+3.6	88	1†	44	23†	3.96	+0.33	1.16	30	0	12	11	5	14	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	4	.....	.....	.....	.....	.....	.....	2.81	.....	1.44	11	0	9	.....	.....	.....	.....	City Water Dept.
Belvidere	Warren	289	53	68.6	+3.5	92	8	44	30	5.44	+1.66	1.43	15	0	12	11	2	17	.....	Miss C. S. Hixson.
Berlin	Camden	70	4	.....	.....	.....	.....	.....	.....	2.85	.....	1.30	17-18	0	9	16	5	9	s.	Samuel H. McCulley.
Boonton	Morris	280	55	65.5	+2.0	89	7†	42	30	4.86	+0.74	2.32	18-19	0	13	16	0	14	nw.	John Kline.
Bridgeton	Cumberland	30	62	71.4	+3.1	91	10	48	22	3.56	+0.06	1.77	17-18	0	7	20	4	6	se.	Bennett K. Matlack.
Brooklawn	Camden	30	4	.....	.....	.....	.....	.....	.....	3.27	.....	1.36	17-18	0	7	.....	.....	.....	.....	C. D. Scott.
Burlington	Burlington	12	59	71.6	+3.9	91	1	43	17	2.62	-1.17	0.73	17-18	0	9	16	6	8	w.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	15	67.6	+3.8	94	8	43	22	7.62	+2.76	2.70	19	0	12	10	11	9	sw.	N. J. Dept. of Conservation.
Cape May	Cape May	17	57	70.6	+1.6	82	15†	53	30	2.83	-0.26	0.76	15	0	8	3	6	21	s.	Naval Air Station.
Charlotteburg††	Passaic	760	53	67.0	+4.7	91	8	39	30	5.54	+1.05	1.70	18-19	0	12	9	5	16	w.	Newark Water Dept.
Chatham	Morris	185	41	.....	.....	.....	.....	.....	.....	7.56	+3.08	2.53	18-19	0	11	11	12	7	.....	Edward P. Molitor.
Chatworth	Burlington	90	5	70.2	.....	91	1	42	22	2.55	.....	0.83	11	0	9	10	13	7	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	32	70.2	+3.2	92	1	45	24	2.76	-0.73	0.98	17-18	0	6	11	4	15	e.	Worthy Hitt.
Clinton	Hunterdon	300	2	.....	.....	.....	.....	.....	.....	4.92	.....	1.57	9-10	0	13	9	6	15	sw.	L. W. Klockner.
Culvers Lake††	Sussex	760	44	.....	.....	.....	.....	.....	.....	4.75	+0.57	2.31	14-15	0	9	.....	.....	.....	.....	L. S. Dupue.
Dover	Morris	600	61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	William C. Harris.
Elizabeth	Union	34	66	69.8	+2.9	93	1†	44	30	6.88	+2.83	1.56	18-19	0	11	13	0	17	ne.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	140	59	70.3	+3.6	95	8	45	22†	4.04	+0.25	1.79	9-10	0	10	14	5	11	sw.	Hiram E. Deats.
Fort Dix, A. A. B.	Burlington	120	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. B. Weather Station.
Freehold	Monmouth	194	54	68.6	+2.5	88	1†	42	22†	4.55	+0.17	2.34	18	0	11	14	9	7	s.	Moreau Plant Co.
Hammononton	Atlantic	95	59	70.9	+3.9	91	29	42	22	3.15	-0.41	1.02	17-18	0	12	10	7	13	s.	J. G. Wilson.
Hightstown	Mercer	110	52	68.9	+2.4	89	1†	44	30	5.52	+1.71	1.40	11	0	13	9	11	10	sw.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington	100	56	69.7	+3.3	90	1†	42	22	1.82	-2.15	0.65	17-18	0	13	7	14	9	s.	Edward Entwistle.
Jersey City	Hudson	81	47	67.7	+0.1	88	1	44	30	5.23	+1.51	1.90	18	0	10	12	9	9	sw.	J. C. Water Dept.
Lakewood	Ocean	54	41	69.4	+4.2	90	1	45	22	4.58	+1.09	1.91	11-12	0	11	6	11	13	sw.	R. W. Holman.
Lambertville	Hunterdon	75	58	68.5	+2.7	95	1	45	21†	4.95	+1.28	2.47	11	0	8	12	8	10	sw.	Marcel Wollaston.
Layton††, 3 miles NW.	Sussex	480	44	65.9	+3.4	90	8	39	30	5.85	+1.94	1.34	1-2	0	10	13	2	15	s.	A. M. Dupue.
Little Falls	Passaic	157	42	69.0	+3.6	93	1	43	30	7.04	+2.82	3.89	18-19	0	11	12	9	9	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	37	68.9	+3.0	88	1	47	23	3.09	-0.70	1.35	11	0	8	9	7	14	s.	Storm Warn. Display Sta.
Long Valley	Morris	660	15	66.0	+3.3	90	7†	41	30	5.61	+1.16	2.25	14	0	8	12	10	8	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	4	.....	.....	.....	.....	.....	.....	2.57	.....	0.82	17-18	0	12	11	8	11	sw.	David Griscom.
Mays Landing	Atlantic	50	1	.....	.....	.....	.....	.....	.....	3.33	.....	0.86	11	0	12	14	4	12	ne.	Elmer Earle.
Millville	Cumberland	60	5	.....	.....	.....	.....	.....	.....	3.32	.....	1.09	10	0	8	10	9	11	.....	Paul Ritchie.
Moorestown	Burlington	62	82	68.5	+2.3	88	1†	45	22	3.12	-0.63	1.09	18-19	0	12	10	2	18	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	500	4	.....	.....	.....	.....	.....	.....	5.21	.....	1.75	18-19	0	11	15	6	9	.....	James C. Long.
Newark	Essex	10	91	69.6	+3.2	93	8	45	30	5.98	+2.21	2.22	18	0	10	11	3	16	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	91	69.2	+3.4	88	1	44	30	7.86	+4.03	1.28	18-19	0	11	16	5	9	se.	N. J. Experiment Station.
New Milford††	Bergen	12	27	.....	.....	.....	.....	.....	.....	4.25	+0.01	1.67	18	0	10	.....	.....	.....	.....	Hackensack Water Co.
Newton	Sussex	769	62	68.0	+4.2	86	1†	39	30	3.79	-0.01	0.95	15	0	13	10	5	15	sw.	Irving J. Kern.
Orange††	Essex	140	5	.....	.....	.....	.....	.....	.....	7.49	.....	3.65	18	0	10	.....	.....	.....	.....	County Engineer.
Paterson	Passaic	95	74	68.5	+2.2	92	7†	42	30	6.21	+2.05	2.80	18-19	0	9	11	10	9	s.	J. W. Cook.
Pemberton	Burlington	55	16	71.2	+3.5	90	1	47	22†	2.25	-1.92	0.52	29	0	12	9	11	10	sw.	Charles A. Doehliert.
Phillipsburg	Warren	182	56	67.2	+2.0	90	1	43	30	3.59	-0.09	0.72	17-18	0	10	10	9	11	.....	Town Engineer.
Plainfield	Union	120	57	69.0	+3.4	91	1†	44	30	8.85	+4.32	2.49	14	0	12	7	11	12	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	4	.....	.....	.....	.....	.....	.....	6.91	.....	2.25	11	0	9	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††	Atlantic	8	47	70.2	+4.3	87	29	45	23	2.17	-1.27	0.90	29	0	9	5	10	15	s.	N. J. Dept. of Conservation.
Rahway	Union	20	6	.....	.....	.....	.....	.....	.....	5.37	.....	2.60	18	0	7	.....	.....	.....	.....	Louis Fontenelli.
Ridgefield	Bergen	80	28	68.8	+3.7	93	8	43	30	6.47	+2.35	2.67	14	0	12	10	8	12	s.	George P. Kirsten.
Runyon††	Middlesex	18	22	69.1	+4.8	96	7	40	22	8.06	+3.92	1.90	11†	0	9	19	6	5	w.	N. J. Dept. of Conservation.
Rutherford	Bergen	51	1	68.1	.....	92	7†	42	30	6.11	.....	2.62	14-15	0	10	4	6	20	sw.	Harold Scott.
Sandy Hook	Monmouth	15	47	70.5	+3.0	89	7	47	30	4.64	+1.21	1.51	18-19	0	9	9	5	16	s.	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	62	.....	.....	.....	.....	.....	.....	3.83	-0.04	1.05	18-19	0	11	6	14	10	e.	Joseph Starkman.
Sussex	Sussex	450	50	67.4	+3.1	91	8	40	30	5.56	+1.55	2.40	14-15	0	12	10	5	15	w.	Marshall Hunt.
Toms River	Ocean	33	24	.....	.....	.....	.....	.....	.....	4.10	+0.16	1.25	11-12	0	13	.....	.....	.....	.....	Robt. F. Snyder.
Trenton	Mercer	56	73	69.4	+2.5	89	1	47	30	5.21	+1.81	1.37	14	0	11	7	6	17	s.	U. S. Weather Bureau.
Trenton No. 2	.....do.	105	15	69.3	+2.5	90	1	46	30	6.33	+1.27	1.58	11	0	11	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton	Ocean	23	52	70.4	+3.7	88	1†	41	5	1.77	-1.61	0.42	30	0	10	13	8	9	sw.	John H. Brown.
Vineland	Cumberland	110	65	.....	.....	.....	.....	.....	.....	3.45	-0.07	0.80	28	0	11	13	10	7	sw.	Robert Jones.
Westfield	Union	145	6	.....	.....	.....	.....	.....	.....	7.96	.....	3.06	18	0	8	13	3	14	sw.	Town Engineer.
Woodcliff Lake††	Bergen	103	27	.....	.....	.....	.....	.....	.....	4.92	+0.74	1.76	18	0	10	.....	.....	.....	.....	Hackensack Water Co.
Woodstown	Salem	16	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. S. Keen.
New York, N. Y.	.....	10	75	69.7	+2.9	89	8	45	30	5.38	+1.99	2.79	14	0	10	9	8	13	s.	U. S. Weather Bureau.
Philadelphia, Pa.	.....	10	75	70.9	+2.9	90	1	49	30	3.96	+0.82	1.88	17-18	0	10	5	10	15	sw.	U. S. Weather Bureau.
For the State	.....	.....	.....	69.0	+3.2	96	7	39	30	4.68	+0.90	3.65	18	0	10	11	7	12	sw.	.....

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T. Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for September 1945																																		
Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast		.18								.23				T.	.30		.13	.16					.04	.01			T.		1.22	.01		2.28	
Barneget City ¹	do.	1.04									.18					1.48		.11	.12					T.	T.					T.			2.93	
Bass River	do.			.41								.28			.02						.67					.18						.35	1.91	
Belleplain	Tuckahoe	.29									.21	.04	.68			.16	.13	.12	.81	.15				.16	.05							1.16	3.96	
Belmar ²	Coast	.24									T.	1.44				.01	.08	T.	.14	.66	.05	T.		.01	T.			T.	T.	.18	T.		2.81	
Belvidere	Delaware	.39									.02	.80	.15			.67	1.43		.66	.45	.38			.04	.02	.43		T.					5.44	
Berlin	Mullica	T.									.12	.40				.18	.12		.42	1.30	T.			.03				.68		.20			2.85	
Boonton ³	Passaic	.13									T.	.03	.08			.133	.03	T.	.57	2.32	T.	T.			.02	.02	.24	.02	.04	.03			4.86	
Bridgeton	Delaware	.18									.11					.23			.48	1.77				.19	T.					.60			3.56	
Brooklawn	do.									.25		.12				.25			.39	1.36	T.			T.					.71	.19	T.		3.27	
Burlington	do.	.60								.16		.36	.03			.17			.20	.73	.30			.07									2.62	
Canoe Brook ³	Passaic	.70								.01	.63	.15				2.30			.06	.71	2.70		.01			.03			.31		.01		7.62	
Cape May ^{1†}	Coast	.24									.09	.21	.05			T.	.76		.33	.69		T.		.07				T.		.44	T.		2.83	
Charlotteburg	Passaic	.12									.18	.10	.05			.10	1.50		.32	1.35	1.70			.04					.05	.03			5.54	
Chatham ³	do.	.59	T.								.05	1.01	.23			2.30	.05	.01	.63	2.53	T.	.02							.14	T.	T.		7.56	
Chatsworth	Coast	.18									.20	.83	T.			.15	T.							.05	.25			.15		.06			2.55	
Clayton	Delaware										.49					.15			.52	.98	.18									.44			2.76	
Clinton	Raritan	.54							1.30		.27	.20				.66	.43		.53	.51	.36			.06	.01			.03	.02				4.92	
Culvers Lake	do.	.44									.52	.16				T.	2.31		.33	.62	.30				.06	T.	T.						4.75	
Elizabeth	Coast	.65									T.	.28				1.20	.78		.54	1.18	1.56			.02			T.	.63		.03	.01		6.88	
Essex Fells	Passaic	.43									.05		.06				2.10	.02															6.57	
Flemington	Raritan	.18								1.79	.53					.19	.17		.37	.56	.06			.07	T.			T.	.12				4.04	
Fort Dix, A.A.B. ²	Delaware										.06	.89				.06	.05		.26	1.46	.88	T.		.01	T.			.09	.57				4.55	
Freehold	Raritan	.22									.62	.06	.14			.12			.12	1.02	.21			.09	.04				.08				3.15	
Hammonton	Mullica	.15									.79	1.40	.13			.53	.10		.36	1.12	.54	T.		.02	.09	T.		T.	.02	.01		.50	5.52	
Hightstown	Raritan	.41									.03	.01	.03			T.	.09		.23	.65	.09			.03	.09			.18	.19	.10			1.82	
Indian Mills	Mullica	.10									.10					1.85	.05		.50	1.90	.10			.03				.11	.01				5.23	
Jersey City ¹	Coast	.58									.03	1.85	.06			T.	.12		.16	.88	1.25	T.		.09	.05					.04			4.58	
Lakewood	Metedeconk	.05									.39	2.47	T.			.34	.16		.43	.94				.14				.08	T.				4.95	
Lambertville	Delaware										.96	.73				.22	.96		.36	.59	.26			.03				.40					5.85	
Layton	do.	1.34									.06		.11			2.21	.03	.03	.68	.39				.03	.01			T.	.06	.01			7.04	
Little Falls ³	Passaic	.45									.06					2.21	.03	.03	.68	.39				.03	.01			T.	.06	.01			3.09	
Long Branch ^{1†}	Coast	.41									.1	1.85				T.	.02		.17	.94	.02	T.		T.				.15	.03	T.			5.61	
Long Valley ³	Raritan	.30								1.18		.10				2.25	.05		.68	.95								.10					5.68	
Manville	do.	1.45									.65	.78				.55	.17		.33	1.70								.05	T.					
Marlton	Delaware	.42										.02				.08	.23		.25	.82	.50			.02	.01				.01				2.57	
Mays Landing	Gt. Egg Harbor	.09	.09					T.	T.	T.		.14	T.	.86		.01	.13		.12	.76	.29			.03	.06				.01	.20				3.33
Midland Park	Passaic	.23									.73	T.				1.25	.31		.58	1.91	.42						.05	.02	.06	.19		.75		5.20
Millville ^{2†}	Maurice	12								1.09	.33					.12			.31	1.00				.03									3.32	
Moorestown ³	Delaware										.09	.04	.02			.04	.10		.02	.50	1.09	T.			.06	.01							3.12	
Morris Plains	Passaic	.54									.14	.07				.98	.50		.35	1.14	1.75	T.		T.		.08	.01		.05	T.			5.21	
Newark ¹	Coast	.46								T.	.23					1.93	.04		.50	2.22	.01			.02		T.	T.	.54	.03	T.			5.98	
New Brunswick	Raritan	.95	T.								.89	1.26				.32	1.17	T.	.34	1.12	1.28	T.		.01				.04	.48				7.86	
New Milford ^{2†}	Hackensack	.34									.42	.08				.68	.41		.46	1.67	.04							.02		.13			4.25	
Newton	Delaware	.66									.20	.27				.95			.66	.46	.36	.02		.06	.03	.01	.08		.03				3.79	
Orange ^{2†}	Passaic	.53									.05					2.11	.33		.50	.65	.01			T.	.01			.28	.02				7.49	
Paterson ²	do.	.44									.37	.10				1.61	.41		.44	.76	.04	T.		T.			T.	.04		T.			6.21	
Pemberton	Delaware	.09									.11		.28			.03	.15		.22	.45	.28			.07	T.			.01	.04	.52			2.25	
Phillipsburg	do.	.59									.43	.20				.42	.20		.65	.72				.05	.06	T.	T.						3.59	
Plainfield	Raritan	1.13									.92	.41				2.27	.22		.49	1.55	1.35	T.		.04				.25	.16	.06			8.85	
Plainsboro	do.	1.05									T.	12.25				* 1.53			.30	.86	.78							.02					6.91	
Pleasantville ³	Coast		.26									.27					.20		.06	.20	.20				.06	.02					.90		2.17	
Rahway ^{1†}	Rahway	.08										.30				1.78			.10	.20				.03				.48		T.			5.37	
Ridgefield	Hackensack	.49									.43	.19	.01			2.67	.01	.05	.47	1.00	.72			.01			T.	T.	.42	T.			6.47	
Ringwood	Passaic	.11									.22	.66	.08			1.49	.04		.05	.65	2.20			.01							.22		5.73	
Runyon	Coast	.30									.10	.90				1.84	.06		1.68	1.90	.20							.08					8.06	
Rutherford	Passaic																																	

Daily Temperatures for September 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	79	75	74	71	73	76	78	79	81	80	80	83	78	81	84	74	68	72	71	70	83	68	65	73	76	83	74	77	78	60	75.5
	Minimum...	73	67	62	66	61	67	68	68	72	74	72	66	61	72	66	62	58	60	63	62	63	53	60	65	70	69	69	60	52	65.0	
Barnegat City†.....	Maximum...	80	76	73	72	75	76	78	78	77	81	82	80	77	82	85	72	67	71	71	69	80	72	66	75	76	82	74	78	85	59	75.6
	Minimum...	70	64	63	64	57	63	64	65	70	70	70	61	62	70	65	62	58	60	62	58	63	54	59	65	67	68	68	65	58	53	63.3
Belleplain.....	Maximum...	88	80	78	78	79	78	82	85	87	86	83	83	88	82	73	70	75	72	72	82	84	68	77	88	86	82	86	88	85	80.8	
	Minimum...	69	66	62	58	49	60	63	56	66	68	63	62	50	59	65	57	58	57	62	58	58	45	44	44	68	69	72	61	62	49	59.3
Belvidere.....	Maximum...	91	79	75	82	85	89	90	92	88	87	85	82	84	81	74	69	59	61	66	73	82	73	61	72	80	85	76	87	86	66	78.7
	Minimum...	65	68	55	55	53	57	50	63	65	70	68	55	53	64	66	55	49	49	59	57	58	45	47	57	69	70	61	67	60	44	58.5
Boonton /.....	Maximum...	87	76	76	78	81	85	89	89	85	82	76	78	80	85	89	79	75	67	74	73	75	80	67	74	84	78	76	81	83	61	76.1
	Minimum...	63	62	55	54	49	50	56	57	59	59	69	58	50	51	56	55	49	45	49	57	55	45	44	44	56	67	62	64	64	42	54.9
Bridgeton.....	Maximum...	87	79	81	82	85	86	86	87	88	91	88	80	85	89	79	75	67	74	73	73	75	80	67	77	88	85	84	87	88	74	81.3
	Minimum...	70	67	60	59	60	54	65	65	66	67	68	63	55	62	66	59	56	56	63	59	58	48	50	59	68	66	70	69	68	50	61.5
Burlington.....	Maximum...	91	88	79	82	85	87	87	88	86	82	80	79	84	87	79	70	67	74	77	72	78	77	73	75	89	86	79	87	88	88	81.5
	Minimum...	68	67	63	59	65	59	65	74	69	60	58	62	60	70	66	58	43	56	62	59	62	58	51	60	62	68	65	67	68	45	61.6
Canoe Brook /.....	Maximum...	90	78	79	79	87	90	93	94	86	79	81	82	83	76	78	71	53	64	74	70	82	74	65	71	87	82	79	85	89	64	71.8
	Minimum...	62	67	52	52	49	51	57	57	61	72	68	57	49	57	64	52	49	49	53	56	55	43	45	51	60	70	60	63	68	44	56.4
Cape May*.....	Maximum...	79	76	75	73	75	78	79	76	78	80	80	79	80	87	82	72	68	74	72	70	78	72	65	74	76	82	77	77	75	77	76.0
	Minimum...	72	67	62	65	61	68	69	68	70	72	71	66	64	72	68	63	60	60	66	62	67	54	60	63	61	69	70	67	70	53	65.3
Charlotteburg.....	Maximum...	90	85	76	77	83	87	90	91	89	82	79	76	80	80	71	70	65	58	67	78	76	78	70	74	84	79	80	85	77	77	78.7
	Minimum...	59	66	53	48	44	50	51	54	57	69	66	67	45	56	64	56	46	46	57	54	46	41	57	54	66	67	54	59	66	39	55.2
Chatsworth.....	Maximum...	91	86	77	80	85	89	87	88	90	84	86	79	84	86	82	71	67	72	72	70	80	79	70	80	90	88	72	88	90	82	81.5
	Minimum...	68	67	56	48	45	57	61	64	67	72	67	62	49	60	66	56	57	57	52	58	60	42	45	56	68	68	60	68	67	47	59.0
Clayton.....	Maximum...	92	85	89	90	84	85	87	81	88	86	85	82	83	88	84	80	81	73	73	73	82	78	75	77	76	88	88	88	90	70	82.7
	Minimum...	56	52	54	55	50	62	63	61	69	71	60	55	51	59	69	52	54	62	58	59	48	47	45	62	66	68	67	57	47	47	57.8
Elizabeth.....	Maximum...	93	86	80	80	86	88	92	93	87	84	83	83	81	79	78	74	66	65	76	69	83	75	66	78	87	85	77	83	89	70	80.5
	Minimum...	65	68	58	57	52	53	61	62	66	72	68	61	54	61	65	54	50	48	60	58	56	47	48	56	67	67	64	66	69	44	59.2
Flemington.....	Maximum...	91	85	81	83	89	93	89	95	91	86	80	84	88	82	79	71	65	63	70	76	85	78	67	78	89	83	75	86	91	68	81.4
	Minimum...	64	68	58	56	51	54	60	66	70	68	58	54	64	65	50	50	60	50	60	58	59	45	48	57	68	70	62	66	67	45	59.2
Fort Dix, A. A. B.*.....	Maximum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Freehold.....	Maximum...	88	78	77	76	83	85	85	88	86	85	83	79	81	83	80	71	65	68	71	68	80	78	65	75	87	83	77	85	87	82	79.3
	Minimum...	64	65	55	55	49	56	60	64	66	69	65	60	51	61	62	60	52	52	58	55	56	42	48	53	64	65	63	64	65	42	58.0
Hammononton.....	Maximum...	90	90	84	80	85	87	90	89	90	87	87	84	86	88	81	79	84	75	73	75	83	76	72	75	89	85	88	87	91	78	83.6
	Minimum...	66	59	66	54	47	55	62	63	68	63	61	60	50	51	64	55	55	59	61	57	54	42	45	55	65	66	63	66	68	46	58.2
Hightstown.....	Maximum...	89	78	75	76	85	87	87	89	88	84	83	78	82	86	77	72	60	69	71	71	80	73	63	78	87	83	73	86	87	64	78.7
	Minimum...	66	67	56	55	50	56	61	66	68	71	68	60	53	62	64	55	51	53	60	57	58	46	47	55	66	67	62	66	63	44	59.1
Indian Mills.....	Maximum...	90	79	78	81	84	87	86	87	88	85	87	80	85	88	79	73	62	73	73	72	81	73	63	74	88	86	77	86	90	69	80.1
	Minimum...	68	66	55	54	45	54	61	62	69	72	66	61	48	58	65	53	56	57	62	58	59	42	45	57	68	69	66	67	68	47	59.3
Jersey City*.....	Maximum...	88	76	74	74	77	78	85	87	78	79	76	78	76	74	74	68	57	68	71	64	79	68	62	72	80	80	72	75	85	57	74.4
	Minimum...	71	66	59	60	58	61	65	68	69	70	69	64	59	69	63	57	50	50	60	58	60	50	48	60	67	68	66	66	54	44	61.0
Lakewood.....	Maximum...	90	81	74	74	80	82	85	87	84	84	82	78	79	83	79	70	69	70	69	80	73	65	74	86	83	76	83	88	78	78	78.5
	Minimum...	68	68	57	55	48	57	61	67	69	73	67	61	54	60	65	57	57	62	58	58	45	46	56	66	67	65	68	67	50	60.3	
Lambertville.....	Maximum...	95	85	79	76	84	86	85	89	82	86	77	76	81	84	76	67	65	67	70	78	75	65	72	84	81	75	81	85	87	68	78.7
	Minimum...	64	66	55	55	51	55	55	62	67	71	67	52	53	63	65	50	49	57	58	45	48	56	66	70	60	66	67	55	45	58.3	
Layton.....	Maximum...	88	82	78	80	83	87	89	90	84	83	83	78	81	69	75	65	54	57	65	69	79	71	59	69	84	75	78	83	84	61	76.1
	Minimum...	61	61	51	59	52	57	57	62	62	68	68	49	46	60	63	53	47	46	56	55	55	40	41	55	67	67	55	55	59	57	55.7
Little Falls /.....	Maximum...	93	78	76	80	85	88	92	90	86	85	79	82	81	77	74	70	59	67	72	70	81	75	65	79	86	82	77	83	86	62	78.7
	Minimum...	64	68	56	55	51	55	59	61	63	72	68	60	52	60	69	64	53	58	55	46	45	55	63	70	62	65	70	62	55	43	59.2
Loug Branch*.....	Maximum...	88	78	76	74	78	82	83	87	81	80	81	79	78	80	80	72	62	72	72	68	80	71	66	75	85	83	73	81	88	58	77.0
	Minimum...	69	64	60	55	52	59	63	67	70	72	69	59	56	64	64	58	58	57	62	59	59	47	47	57	67	69	67	68	57	49	60.8
Long Valley /.....	Maximum...	88	77	74	79	83	88	90	90	85	83	78	79	83	76	72	69	58	62	68	69	80	72	61	72							

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. L

OCTOBER 1945.

No. 10

GENERAL SUMMARY.

Temperature for October averaged almost normal. The first week was cool and the first fall frost of consequence occurred on October 4th. This, however, was killing over much of the State with readings in the twenties at many stations. The 4th was the coldest morning of the month in most localities though a few stations recorded lower readings on the 28th. A warm period prevailed from the 17th to 22d and on the 19th, readings of 80° or higher were registered at most stations. The last three days of the month were also unseasonably warm.

Precipitation averaged 69 percent of normal and the monthly average of 2.51 inches was the least for the current year except in March when the average was 2.37 inches. It was quite uniform over the State except that it was slightly less in the extreme north. General rains fell on the 1st-2d; there was a rainy period from the 6-9th, and a period of almost steady rains from the 22d to 26th. There was no snow and no destructive winds occurred during the month. Conditions were favorable for harvesting of crops and seeding of winter grains.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 42 stations, was 54.2°, which was 0.4° below normal. The highest temperature was 86° at Canoe Brook on the 19th, and the lowest, 21°, at Layton on the 4th. The highest monthly average temperature was 58.4° at Cape May, and the lowest, 50.2° at Layton. The temperature departure from the normal for the year 1945, to date, for the State, is +0.8°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 60 stations, was 2.51 inches, which was 1.11 inches below normal. There was no snow. The greatest monthly precipitation was 3.89 inches at Elizabeth, and the least, 1.39 inches at Clinton. The greatest amount of precipitation in any 24 consecutive hours was 2.04 inches at Cape May on the 23d. The average for the Highlands was 2.14 inches; for the Red Sandstone Plain, 2.51 inches; for the Southern Interior, 2.54 inches; and for the Sea Coast, 2.60 inches. The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, +11.91 inches; Red Sandstone Plain, +5.70 inches; Southern Interior, -1.21 inches; Sea Coast, -2.10 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 6, 7, 18, 19, 23, 26, 29, 31.

THUNDERSTORMS: 7, 9, 10, 22, 23, 26.

KILLING FROST: 4, 5, 14, 15, 16, 28.

HAIL: 26.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.52	4	29.62	9	14.3	36	w.	9	82	70	77	61	229
Long Branch.....	30.53	4	29.60	9	11.2	33	nw.	3	82	66	70	60	312
Trenton.....	30.53	4	29.61	9	7.9	26	nw.	26	84	56	68	57	306

COMPARATIVE DATA FOR OCTOBER.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	54.2	82	29	4.20	0	.....	.....	.....
1886.....	55.6	88	21	3.22	0	.....	.....	.....
1887.....	52.3	89	21	2.61	0	.....	.....	.....
1888.....	49.2	73	25	4.73	0	12	.....	.....
1889.....	50.8	82	23	3.80	0	11	.....	.....
1890.....	53.9	81	24	6.33	0	13	9	14
1891.....	52.8	92	18	3.44	0	8	11	9
1892.....	53.6	85	21	0.52	0	4	14	12
1893.....	55.2	85	17	4.22	0	7	15	9
1894.....	55.3	87	27	5.67	0	10	12	12
1895.....	49.9	83	18	3.60	0	5	19	12
1896.....	51.5	82	21	2.24	0	8	11	12
1897.....	55.8	95	22	2.43	0	7	14	12
1898.....	56.5	88	24	5.76	0	10	13	9
1899.....	56.6	86	18	2.72	0	6	13	10
1900.....	59.9	92	19	3.70	0	10	10	13
1901.....	54.4	82	21	1.93	0	4	17	6
1902.....	56.0	80	20	6.39	0	8	15	9
1903.....	55.9	86	24	8.92	0	8	13	9
1904.....	51.9	89	15	3.78	0	5	20	5
1905.....	55.5	90	17	2.71	0	7	18	6
1906.....	55.0	80	11	4.46	0	11	8	14
1907.....	50.6	80	18	4.46	0	7	22	4
1908.....	57.3	92	19	2.71	0	8	15	11
1909.....	51.2	84	18	1.18	0	8	17	7
1910.....	57.2	90	18	3.15	0	7	15	8
1911.....	53.9	80	18	5.49	0	12	10	12
1912.....	57.0	88	25	3.30	0	5	17	6
1913.....	57.8	83	25	7.79	0	11	12	10
1914.....	58.1	88	19	1.99	0	5	13	9
1915.....	56.2	84	23	3.03	0	9	17	7
1916.....	55.1	92	23	1.37	0	4	18	5
1917.....	50.7	84	22	6.99	0	10	15	8
1918.....	57.0	84	22	1.25	0	8	16	9
1919.....	59.0	92	25	3.43	0	13	9	14
1920.....	59.0	87	28	1.80	0	5	20	6
1921.....	54.1	82	16	0.97	0	5	18	7
1922.....	56.6	92	18	1.48	0	7	19	6
1923.....	53.9	81	21	4.25	0	8	16	7
1924.....	54.4	84	16	0.31	0	1	23	2
1925.....	49.1	84	12	4.59	0	11	9	13
1926.....	53.1	90	17	4.08	0	11	13	10
1927.....	56.8	94	23	7.82	0	10	18	8
1928.....	56.1	90	16	1.19	0	6	17	9
1929.....	52.3	80	17	4.61	0	8	15	8
1930.....	52.6	89	12	1.95	0	6	17	7
1931.....	58.3	92	24	2.76	0	8	17	7
1932.....	56.2	89	21	5.85	0	10	13	12
1933.....	53.6	84	18	2.04	T.	6	18	7
1934.....	52.6	82	21	2.49	T.	6	17	6
1935.....	54.8	84	23	4.50	0	8	18	7
1936.....	55.6	82	9	3.40	0	8	15	10
1937.....	53.2	84	15	5.27	T.	10	12	12
1938.....	56.2	93	24	2.47	0	7	19	5
1939.....	54.9	93	19	4.24	0	9	14	11
1940.....	51.0	82	11	2.36	0.7	8	15	9
1941.....	58.9	97	17	1.90	0	8	15	9
1942.....	56.1	87	21	3.43	0	9	15	10
1943.....	53.5	87	18	7.51	0	11	12	12
1944.....	53.7	88	18	2.41	0	6	18	5
1945.....	54.2	86	21	2.51	0	9	14	10
Period.....	54.6	97	9	3.62	0	8	15	8

Climatological Data for October 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	72	57.6	+0.7	76	18	35	15	2.69	-0.51	1.21	23	0	7	12	7	12	s.	U. S. Weather Bureau.
Barnegat City	Ocean	36	6	56.8		83	19	38	15	2.18		1.30	23-24	0	5				U. S. Coast Guard.	
Belleplain	Cape May	49	51	54.9	-0.5	80	20	24	4	3.48	+0.12	1.64	23-24	0	7	17	5	9	w.	Mrs. Edward C. Hoffman
Belmar	Monmouth	19	4							2.51		0.91	23	0	8				City Water Dept.	
Belvidere	Warren	289	53	52.7	-2.2	80	19	29	28	2.41	-1.22	0.62	9	0	8	18	4	9	w.	Miss C. S. Hixson.
Berlin	Camden	70	4							3.41		1.10	23	0	7	19	4	8	nw.	Samuel H. McCulley.
Boonton	Morris	280	55	51.8	-0.4	81	19	28	4	2.38	-1.16	1.03	6-7	0	12	19	0	12	nw.	John Kline.
Bridgeton	Cumberland	30	62	56.0	-0.9	77	21	31	4	2.52	-0.85	0.86	24	0	9	17	5	9	nw.	Bennett K. Matlack.
Brooklawn	Camden	30	4							1.83		0.88	24	0	4				C. D. Scott.	
Burlington	Burlington	12	59	56.6	-0.6	78	18	32	4	3.84	+0.36	1.38	23-24	0	9	15	8	8	w.	Public Service E. & G. Co.
Canoe Brook	Essex	180	15	52.6	+0.2	86	19	26	4	2.62	-1.02	0.88	6-7	0	11	16	5	10	sw.	N. J. Dept. of Conservation.
Cape May	Cape May	17	57	58.4	-1.2	78	2	39	4	2.76	-0.28	2.04	23	0	6	11	8	12	s.	Naval Air Station.
Charlotteburg	Passaic	760	53	51.4	0.0	82	19	24	4	2.07	-2.17	0.69	6-7	0	9	11	2	18	sw.	Newark Water Dept.
Chatham	Morris	185	41							2.52	-1.28	0.93	6-7	0	9	17	5	9		Edward P. Molitor.
Chatsworth	Burlington	90	5	54.4		84	19	25	28	2.51		0.84	23	0	7	16	8	7	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	32	55.6	-0.8	81	19	28	4	2.82	-0.48	1.10	23	0	5	17	6	8	n.	Worthy Hitt.
Clinton	Hunterdon	300	2							1.39		0.52	9	0	10	15	2	14	nw.	L. W. Klockner.
Culvers Lake	Sussex	760	44							1.94	-1.72	0.52	9	0	8				L. S. Depue.	
Elizabeth	Union	31	66	54.4	-0.8	83	19	29	28	3.89	+0.18	1.59	6	0	10	17	3	11	sw.	Union County Park Comm.
Flemington, 2 mi. N.E.	Hunterdon	140	59	55.0	-0.6	84	18	29	28	1.93	-1.51	0.39	9	0	9	16	8	7	w.	Hiram E. Deats.
Freehold	Monmouth	194	41	53.4	-1.9	81	19	27	4	2.65	-1.09	0.96	6	0	10	16	8	7	sw.	Moreau Plant Co.
Hammonton	Atlantic	95	39	56.1	-0.3	83	19	26	4	2.47	-1.12	1.08	23	0	8	15	4	12	sw.	J. G. Wilson.
Hawthorne	Passaic	130		53.1		83	19	28	4	2.58		0.86	6	0	15	8	9	14	sw.	Philip J. Del Vecchio.
Hightstown	Mercer	110	52	53.6	-1.3	80	19	28	4	2.72	-0.92	0.74	23-24	0	10	12	14	5	sw.	James R. Pickering
Indian Mills, 2 mi. W.	Burlington	100	56	54.3	-1.0	82	19	25	4	2.04	-1.45	0.95	23-24	0	9	14	9	8	nw.	Edward Entwistle.
Jersey City	Hudson	81	47	53.4	-3.0	75	18	35	4	2.50	-0.98	0.63	23-24	0	10	17	3	11	sw.	J. C. Water Dept.
Lakewood	Ocean	54	41	54.2	-0.2	80	19	30	28	2.33	-1.66	0.75	23-24	0	8	10	10	11	sw.	R. W. Holman.
Lambertville	Hunterdon	75	58	52.6	-1.8	79	19	29	27	2.27	-1.18	0.49	23-24	0	10	13	8	10	sw.	Mabel Wollaston.
Layton, 3 miles NW.	Sussex	480	44	50.2	-0.7	82	20	21	4	2.58	-1.02	0.58	9	0	10	11	5	15	w.	A. M. Depue.
Little Falls	Passaic	157	42	53.6	-0.5	83	19	28	4	2.45	-1.71	1.10	6-7	0	13	11	10	10	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	37	55.0	-0.2	82	19	32	4	2.56	-0.70	0.79	6	0	9	12	7	12	sw.	Storm Warn. Display Sta.
Long Valley	Morris	660	15	51.0	-0.7	81	19	26	4	2.05	-1.39	0.60	6	0	8	12	13	6	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	4							2.34		0.92	23	0	9	14	9	8	sw.	David Griscom.
Mays Landing	Atlantic	50	1							2.53		1.47	23	0	9	16	8	7	sw.	Elmer Earle.
Millville	Cumberland	60	5							2.22		1.14	23	0	7	18	6	7	sw.	Paul Ritchie.
Moorestown	Burlington	62	82	53.6	-1.3	79	19	29	4	2.73	-0.68	0.90	23-24	0	8	16	3	12	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	400	4							2.00		0.53	7	0	9	16	5	10		James C. Long.
Newark	Essex	10	91	54.2	-1.4	82	19	33	4	3.35	-0.44	1.51	6-7	0	10	8	13	10	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	91	54.2	-0.6	79	19	30	4	2.92	-0.64	0.73	6-7	0	10	16	6	9	nw.	N. J. Experiment Station.
New Milford	Bergen	12	27							2.33	-0.83	0.40	25	0	12				Hackensack Water Co.	
Newton	Sussex	769	62	51.6	-1.1	80	19	27	4	2.51	-1.15	0.60	6-7	0	13	11	4	16	nw.	Irving J. Kern.
Orange	Essex	140	5							3.13		0.95	6	0	12				County Engineer.	
Paterson	Passaic	95	74	54.0	-1.1	84	19	31	4	2.08	-1.78	0.51	6	0	12	13	10	8	sw.	J. W. Cook.
Pemberton	Burlington	55	16	56.2	+0.5	83	19	30	4	2.17	-1.29	0.77	23-24	0	9	15	6	10	sw.	Charles A. Doehrlert.
Phillipsburg	Warren	182	56	51.2	-2.3	77	19	28	4	2.13	-1.39	0.59	9	0	9	13	12	6	sw.	Town Engineer.
Plainfield	Union	120	57	53.6	-0.4	80	19	30	28	3.16	-0.71	0.88	6	0	10	9	11	11	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	4							2.79		1.04	7	0	7				Walker-Gordon Lab.	
Pleasantville	Atlantic	8	47	55.6	+0.8	82	18	27	4	1.91	-1.56	0.99	23	0	5	14	11	6	nw.	N. J. Dept. of Conservation.
Rahway	Union	20	6							3.37		1.68	6	0	10	16	4	11	w.	Louis Fontenelli.
Ridgefield	Bergen	80	28	53.2	-0.6	82	19	30	4	2.36	-1.15	0.63	6-7	0	9	13	10	8	nw.	George P. Kirsten.
Runyon	Middlesex	18	22	51.2	-1.6	79	18	22	4	3.02	-0.72	0.68	6-7	0	8	22	3	6	nw.	N. J. Dept. of Conservation.
Rutherford	Bergen	51	1	53.2		82	19	31	4	2.65		0.68	6	0	11	8	5	18	sw.	Harold Scott.
Sandy Hook	Monmouth	15	47	56.2	-0.5	76	19	40	15	2.58	-1.20	0.99	6-7	0	10	10	6	15	sw.	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	62							2.27	-1.12	1.00	6-7	0	9	11	10	10	w.	Joseph Starkman.
Sussex	Sussex	450	50	52.1	-0.8	81	19	26	4	1.96	-1.36	0.55	9	0	13	13	2	16	sw.	Marshall Hunt.
Toms River	Ocean	33	24							1.95	-2.31	0.90	23	0	7				Robt. F. Snyder.	
Trenton	Mercer	56	73	55.2	-0.4	79	19	35	4	2.22	-0.56	0.86	6-7	0	9	11	10	10	s.	U. S. Weather Bureau.
Trenton No. 2	do.	105	15	54.4	-0.5	79	19	32	4	2.62	-0.72	0.98	6	0	9				Edward H. Ristow.	
Tuckerton	Ocean	23	52	57.4	+0.9	81	18	30	4	2.14	-1.45	0.89	23-24	0	8	19	9	3	nw.	John H. Brown.
Vineland	Cumberland	110	65							2.38	-0.89	1.09	22-23	0	7	14	11	6	w.	Robert Jones.
Westfield	Union	145	6							2.46		0.88	6-7	0	10	14	8	9	sw.	Town Engineer.
Woodcliff Lake	Bergen	103	27							2.43	-0.76	0.60	6	0	12				Hackensack Water Co	
Woodstown	Salem	16	10																Geo. S. Keen.	
New York, N. Y.		10	75	56.2	-0.1	79	19	38	4	1.99	-1.54	0.53	23-24	0	10	12	9	10	nw.	U. S. Weather Bureau.
Philadelphia, Pa.		10	75	57.2	-0.6	80	19	38	15	1.90	-0.91	0.96	23	0	7	13	9	9	sw.	U. S. Weather Bureau.
For the State				54.2	-0.4	86	19	21	4	2.51	-1.11	2.04	23	0	9	14	7	10	sw.	

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated.

‡ Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for October 1945

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast	.22	T.				.27	.37		.22			T.										T.	1.21	T.	.16	.24						2.69	
Barneget City ⁴	do.	.11					.31	.31		T.			T.										T.	1.30		.19	.27						2.18	
Bass River	do.	.18					.17	.17		.25			T.										T.		*	*	*	1.28					1.88	
Belleplain	Tuckahoe	.36					.51	.51		.22														.24	1.64	.17	.34						3.48	
Belmar ²	Coast	T.	T.	.04	T.	T.	.55	.29	T.	.28	T.	T.	T.	T.	T.									.91	.02	.24	.18						2.51	
Belvidere	Delaware	T.	T.				.52	.58		.62		.11											T.	.08	.21	.09	.20						2.41	
Berlin	Mullica	.18			T.		.80	T.	.18														.80	1.10	.10	.25	T.						3.41	
Boonton ³	Passaic	.04	.22				1.03	.02	.31	T.		.02	.08										T.	.20	.30	.03	.11		.02				2.38	
Bridgeton	Delaware	.18					.05	.25		.20													.25	.42	.86	.17	.14						2.52	
Brooklawn	do.	T.					.45	T.															.19	.88	T.	.31	T.						1.83	
Burlington	do.	.11					.18	.68		.08			T.										.75	.70	.68	.26	.40						3.84	
Canoe Brook ³	Passaic		.17				.88	.35	.17			.03	.06											.02	.36	.37	.07	.14					2.62	
Canton	Delaware		.16				.14	.15	.18															.37	1.19	.06	.18						2.43	
Cape May ^{2†}	Coast	.18					.01	T.	.23	T.													T.	2.04	T.	.12	.18						2.76	
Charlotteburg	Passaic	.01	.15				.19	.69	.33				.09											T.	.25	.26	.10						2.07	
Chatham ³	do.		.19					.93	.26	.22			T.	.10										.06	.35	.35	.06						2.52	
Chatsworth	Coast	.12					* 1.00		.21															.84		*	.34						2.51	
Clayton	Delaware	.12					.35	T.	.32				.11										1.05	1.10	T.	.20	T.						2.82	
Clinton	Raritan	.08					.36	.22	.52				.04		.02									T.	.04	.24	.26	.04						1.89
Culvers Lake	do.	T.	.29				.22	.45	.52				.04		T.									T.	.21	.16	.05						1.94	
Elizabeth	Coast	.13	T.				1.59	.46	.18				.10										.10	.14	.62	.47	.10						3.89	
Essex Fells	Passaic						1.00	.02	T.				.01											T.	.34	.30	.05	T.					1.72	
Flemington	Raritan	.25					.12	.34	.39				.06											T.	.05	.35	.33	.04						1.93
Freehold	do.	.08					.96	.17	.21				.02										.12	.01	.67	.31	.10						2.65	
Hammonon	Mullica	.15					.09	.31	.31				.12											.65	.43	.25	.28						2.47	
Hawthorne	Passaic	.02	.23	.12			.86	.18	.06	.32	.30	.16											.02	.06	.32	.30	.16						2.58	
Hightstown	Raritan	.17					.34	.48	.23	.23			.01										.41	.10	.64	.28	.06						2.72	
Indian Mills	Mullica	.13					.13	.22	.19	T.			T.										.15	.26	.69	.20	.07						2.04	
Jersey City ²	Coast	.15					.35	.34	.27				.03										.07	.60	.03	.58	.08						2.50	
Lakewood	Metedeconk	.07					.62	.24	.20				T.											T.	.06	.75	.24	.15						2.35
Lambertville	Delaware	.11					.15	.36	.36				.05										.06	.20	.49	.47	.08						2.27	
Layton	do.	.08	.36				.50	.42	.58				.10	.01	.19									.11	.17	.14	.03						2.58	
Little Falls ³	Passaic	.02	.13				1.10	.12	.20				.10	.01		T.	.01							.03	.35	.30	.02	.06					2.45	
Long Branch ^{2†}	Coast	.08					.79	.43	.38				.02											T.	.74	.04	.27	.11						2.86
Long Valley ³	Raritan	.10	.10				.60		.50				.12												.25	.26		.12						2.05
Manville	do.	.15					.76	.26	T.	.12			T.										.06	.45	T.	.40	.08						2.28	
Marlton	Delaware	.08					.50	.07	.18															.26	.12	.80	.25	.08						2.34
Mays Landing	Gt. Egg Harbor	.17	.01				T.	.34	.03	.21														.10	1.37	.05	.25							2.53
Midland Park	Passaic	.03	.12				.50	.50	.20	.12			.12		.20	.01								.29	.12	.27	.12							2.48
Milville ^{2†}	Maurice	.17					.37	.03	.25															1.14		.08	.18						2.22	
Moorestown ³	Delaware		.07					.87	.15				T.											.38	.90	.03	.32	.01						2.73
Morris Plains	Passaic	T.	.15				.26	.53	.28				.12											T.	.02	.30	.27	.07						2.00
Newark ¹	Coast	T.	.12	T.			1.17	.46	.19				.06			T.	T.							.09	.57	.09	.47	.13						3.35
New Brunswick	Raritan	.20					.50	.73	.18				.03											.24	.01	.52	.33	.18						2.92
New Milford ^{2†}	Hackensack	.02	.18				.34	.38	.23				.10		.08									.08	.32	.11	.40	.09						2.33
Newton	Delaware	.03	.36	.02			.18	.60	.46				.08		.06									.01	.08	.18	.28	.17						2.51
Orange ^{2†}	Passaic	.14	.04				.95	* .45	.16				.08											.28	.39	.06	.47	.11						3.13
Paterson ²	do.	.02	.16	.01			.51	.40	.18				.11		T.	T.								.02	.27	.03	.30	.07						2.08
Pemberton	Delaware	.12					.02	.33	.19				.12		T.									.41	.02	.75	.20	.13						2.17
Phillipsburg	do.	.16					.51	.29	.59				.12		T.									T.	.10	.06	.19	.11						2.13
Plainfield	Raritan	.16					.88	.63	.16				.07											.16	.05	.41	.48	.16						3.16
Plainsboro	do.						.26	1.04	.23	.09														.23	.44		.50							2.79
Pleasantville ³	Coast						.18	T.	.26																.99	.08	.40							1.91
Rahway ^{2†}	Rahway	.12					1.68	.24	.20				.06											.10	.50	.01	.34	.12						3.37
Ridgefield	Hackensack	.08					.33	.36	.22				.07		T.									.15	T.	.54	.53	.08						2.36
Ringwood	Passaic	.01	.15		T.		.90	.70	.34				.09												.20	.24		.10						2.76
Runyon	Coast	.31					.54	.68	.24															.21										

Daily Temperatures for October 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum... 70	75	57	59	65	69	71	72	67	59	60	67	59	55	55	64	67	76	71	75	67	68	67	57	61	61	59	62	67	67	67	65.0	
	Minimum... 57	56	44	40	50	60	54	50	49	45	47	52	44	41	35	43	45	54	60	54	50	61	57	48	53	48	44	43	58	56	60	50.3	
Barnegat City†.....	Maximum... 68	77	55	56	67	71	69	72	63	60	59	65	58	56	54	61	63	80	83	72	67	71	66	61	59	67	59	59	66	65	67	65.0	
	Minimum... 55	53	42	39	45	58	54	51	48	46	46	48	44	42	38	40	44	50	55	53	50	60	54	48	52	44	40	40	54	51	59	48.5	
Belleplain.....	Maximum... 72	77	62	60	69	71	74	74	61	61	73	64	56	55	64	78	69	78	77	80	75	75	62	57	62	58	67	75	72	76	68.7		
	Minimum... 54	57	40	24	32	50	57	40	33	50	33	39	29	31	27	32	34	39	40	47	34	50	60	46	50	49	45	27	36	38	52	41.1	
Belvidere.....	Maximum... 61	69	60	61	68	62	70	75	60	56	63	65	55	52	51	63	75	78	80	73	73	71	62	55	54	50	56	59	67	72	76	64.3	
	Minimum... 51	55	41	30	33	47	58	40	45	36	40	35	42	37	32	35	36	42	40	48	35	45	47	47	45	44	38	29	36	43	42	41.1	
Boonton/.....	Maximum... 69	70	54	56	64	62	69	70	58	58	60	61	58	52	51	60	70	76	81	70	70	74	59	54	53	56	54	60	71	70	72	63.4	
	Minimum... 41	49	43	28	30	35	51	42	48	35	41	34	41	32	34	35	35	41	42	46	35	43	48	44	44	44	32	36	45	49	40.2		
Bridgeton.....	Maximum... 75	77	61	60	69	71	72	73	60	64	61	66	62	60	50	62	68	76	77	70	73	71	72	62	55	59	56	65	72	75	75	66.7	
	Minimum... 53	57	45	31	39	54	58	44	45	40	45	40	45	47	34	35	40	45	49	52	41	53	54	47	51	50	42	34	41	45	51	45.4	
Burlington.....	Maximum... 69	73	62	60	68	65	70	73	67	61	61	67	61	54	53	62	76	78	70	71	75	74	67	58	53	58	55	65	70	76	78	66.1	
	Minimum... 52	40	50	32	36	52	58	48	55	42	45	49	45	40	36	36	54	55	64	53	54	49	44	47	47	46	40	37	40	48	53	47.0	
Canoe Brook /.....	Maximum... 70	70	55	62	70	64	72	76	61	63	64	68	59	55	56	64	74	81	86	74	76	75	61	55	53	57	57	64	74	72	76	66.6	
	Minimum... 39	53	38	26	29	47	54	40	48	32	37	33	36	30	29	32	30	36	38	44	31	41	54	44	47	45	40	26	33	40	40	38.5	
Cape May*.....	Maximum... 70	78	62	55	66	69	71	71	67	60	62	67	58	55	52	62	67	73	68	69	67	68	66	60	61	61	56	63	68	68	67	64.7	
	Minimum... 57	60	43	39	52	64	60	55	51	41	45	53	52	44	42	44	47	55	59	55	57	62	59	48	55	53	47	45	56	56	61	52.1	
Charlotteburg.....	Maximum... 61	68	63	57	65	62	69	71	69	58	59	63	60	50	51	58	72	78	82	77	72	72	69	52	53	53	52	60	74	72	73	64.1	
	Minimum... 35	57	39	24	26	43	55	39	45	30	38	29	41	34	36	32	35	39	39	51	29	38	49	43	45	41	27	30	45	39	38.5		
Chatsworth.....	Maximum... 69	76	62	58	69	72	76	68	61	61	68	63	54	54	61	70	80	84	74	75	76	71	61	55	60	57	63	79	73	78	67.7		
	Minimum... 50	54	44	26	30	52	58	43	47	34	42	33	37	35	30	29	31	39	54	54	31	41	47	45	50	47	40	25	41	38	48	41.2	
Clayton.....	Maximum... 74	75	64	62	69	69	72	75	66	63	64	68	61	64	63	64	73	80	81	70	76	72	67	63	55	60	68	60	77	79	77	68.7	
	Minimum... 52	57	42	28	39	53	43	46	45	37	42	36	42	45	37	30	38	44	44	51	35	54	50	45	49	36	30	28	43	42	58	42.6	
Elizabeth.....	Maximum... 65	71	62	58	67	67	74	75	64	61	63	66	61	57	55	62	72	80	83	75	74	74	61	58	53	57	60	65	72	71	71	66.3	
	Minimum... 47	59	40	30	37	49	58	49	47	36	41	38	40	35	33	35	33	44	46	49	38	46	55	43	49	44	39	29	40	44	44	42.5	
Flemington.....	Maximum... 66	72	60	64	70	63	73	77	64	60	67	70	58	56	53	65	78	84	84	76	77	73	67	55	54	64	58	67	75	73	76	67.7	
	Minimum... 51	59	42	30	32	49	58	43	47	37	44	35	43	36	33	35	35	44	42	47	37	45	54	44	49	47	32	29	38	46	44	42.2	
Freehold.....	Maximum... 65	73	58	59	68	69	74	73	63	60	65	58	54	52	62	71	77	81	71	75	73	63	58	52	57	55	64	73	72	75	65.5		
	Minimum... 45	56	42	27	35	51	55	42	42	33	36	38	39	33	29	33	33	45	46	52	40	48	52	42	46	42	37	31	39	44	49	41.4	
Hammonton.....	Maximum... 73	79	72	71	72	74	75	76	68	66	69	69	62	63	68	74	82	83	78	78	73	74	58	65	65	62	70	79	79	78	71	71	71.7
	Minimum... 50	50	38	26	43	51	48	43	48	35	37	42	37	31	28	29	36	44	48	47	34	41	39	48	47	38	27	38	48	42	40.5		
Hawthorne.....	Maximum... 63	70	59	57	66	64	70	73	63	58	61	65	58	52	52	61	71	78	83	71	72	74	63	52	54	55	56	61	72	69	75	64.5	
	Minimum... 42	58	43	28	34	49	59	46	48	36	41	36	41	35	36	36	34	43	44	53	37	46	51	43	48	43	41	31	38	47	47	42.4	
Hightstown.....	Maximum... 67	71	56	60	68	68	72	72	61	59	61	62	63	54	52	60	70	76	80	70	75	73	64	57	52	57	57	62	72	71	75	65.1	
	Minimum... 47	55	41	28	35	50	58	42	47	35	40	40	39	34	29	34	38	46	49	53	37	47	52	44	48	44	39	30	44	42	42	42.1	
Indiantown Mills.....	Maximum... 69	77	59	61	68	71	72	75	64	63	62	68	59	54	53	63	72	80	82	72	76	73	69	60	54	60	57	67	78	76	77	67.5	
	Minimum... 52	58	44	25	31	52	58	42	46	31	41	35	36	29	28	33	44	46	52	31	45	48	45	49	47	39	26	40	51	41	41.1		
Jersey City*.....	Maximum... 64	70	53	50	62	63	68	70	58	57	57	62	57	48	50	60	68	75	73	70	66	64	60	50	53	54	60	68	68	73	61.3		
	Minimum... 51	53	39	35	42	54	53	48	43	40	42	45	43	40	36	40	51	53	53	46	53	47	42	49	43	43	38	44	54	53	45.6		
Lakewood.....	Maximum... 66	75	58	57	68	70	72	74	64	57	59	65	59	55	51	61	67	76	80	70	69	75	66	60	53	57	56	61	74	69	75	65.1	
	Minimum... 48	58	45	31	33	52	59	47	49	37	40	37	42	35	33	34	46	51	53	38	48	49	46	49	45	39	30	39	46	50	43.3		
Lambertville.....	Maximum... 65	69	66	55	65	62	68	72	64	57	61	67	54	50	52	62	71	76	79	68	70	67	65	55	52	57	63	62	70	72	72	64.1	
	Minimum... 60	57	40	30	34	48	55	40	46	36	41	36	39	35	32	34	35	40	41	45	37	45	52	43	48	41	29	37	40	40	41.1		
Layton.....	Maximum... 60	67	55	58	64	60	70	71	59	54	60	65	54	49	50	62	71	81	80	82	70	73	64	49	55	58	57	61	72	70	76	63.8	
	Minimum... 41	55	35	21	28	45	50	35	41	38	39	39	31	30	32	28	35	44	46	28	37	45	42	41	32	40	24	29	38	33	36.6		
Little Falls/.....	Maximum... 71	70	53	59	68	70	67	73	60	62	62	66	58	51	53	62	72	80	83	77	73	75	59	53	55	57	60	62	74	71	76	65.5	
	Minimum... 42	59	43	28	32	47	58	44	50	35	41	35	38	35	36	32	42	42	51	36	45	55	43	47	47	43	30	36	44	42	41.7		
Long Branch*.....	Maximum... 67	75	55	56	68	68	70	75	62	58	59	67	59	55	53	62	69	77	82	72	69	74	62	53	54	58	58	61	76	67	78	65.1	
	Minimum... 54	54	38	32	38	55	52	46	44	39	42	44	42	37	33	36	36	50	54	50	42	52	55	47	50	44	39	35	43	49			

51.05
V N J

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. I.

NOVEMBER 1945.

No. 11

GENERAL SUMMARY.

While temperature for November averaged 2.4° above normal, the excess was due to unusually mild weather during the first half of the month. Readings in the seventies were registered on several days during that period with an extreme of 80° at Clayton on the 2d. The last half of the month was considerably colder than normal. The coldest mornings were the 24th and 27th with readings under 20° at most stations and as low as 11° at two stations.

November was the wettest month this year except July. The precipitation average of 5.54 inches is 170 percent of normal. The month was not as wet as in 1944, however, which averaged 6.44 inches. The first ten days had very little rain but the remainder of the month was characterized by frequent rains. Heavy falls were rather general on the 28-29th with many stations recording over 2.00 inches. Rather heavy amounts were also recorded in some localities on the 22d. The only measurable snowfall occurred on the 29-30th, the amounts ranging from about two inches in central Jersey to five inches in the extreme north. Monthly precipitation totals were quite uniform over the State being slightly greater, as a rule, in the northern counties. Strong winds occurred on the 14, 19, 20, 22, 28, and 29th, the highest velocity being a 68 mile an hour gale at Long Branch on the 28th and 29th.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 45 stations, was 46.1° , which was 2.4° above normal. The highest temperature was 80° at Clayton on the 2d, and the lowest, 11° , at Layton and Sussex on the 24th and 27th. The highest monthly average temperature was 49.9° at Cape May, and the lowest, 40.6° at Layton. The temperature departure from the normal for the year 1945, to date, for the State, is $+1.1^{\circ}$.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 60 stations, was 5.54 inches, which was 2.28 inches above normal. The average total snowfall at 30 selected stations was 2.1 inches, which was 0.8 inch above normal. The greatest monthly precipitation was 7.85 inches at Elizabeth, and the least, 3.01 inches at Burlington. The greatest amount of precipitation in any 24 consecutive hours was 3.56 inches at Brooklawn on the 28-29th. The average for the Highlands was 5.91 inches; for the Red Sandstone Plain, 5.71 inches; for the Southern Interior, 5.45 inches; and for the Sea Coast, 5.34 inches. The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, $+14.32$ inches; Red Sandstone Plain, $+7.89$ inches; Southern Interior, $+1.08$ inches; Sea Coast, $+0.08$ inch.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 1, 2, 3, 5, 7, 8, 11, 12, 13.

THUNDERSTORMS: 19, 22, 28.

SLEET: 29, 30.

HAIL: 19.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.54	10	29.51	29	17.1	57	se.	22	86	75	81	50	465
Long Branch.....	30.58	11	29.49	29	13.6	68	ne.	28	82	62	72	51	567
Trenton.....	30.57	11	29.52	29	10.0	34	ne.	28	80	57	68	48	540

COMPARATIVE DATA FOR NOVEMBER.

Year	Temperature			Precipitation			No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	44.8	76	18	4.53	.....	.....	.....	.....	.....
1886.....	44.5	73	17	4.49	.....	.....	.....	.....	.....
1887.....	41.5	72	13	1.94	.....	6	.....	.....	.....
1888.....	45.8	77	8	3.97	.....	10	.....	.....	.....
1889.....	45.7	69	13	8.48	.....	13	.....	.....	.....
1890.....	43.8	74	11	0.82	.....	8	13	12	5
1891.....	42.2	70	6	2.39	.....	4	12	10	8
1892.....	41.9	71	12	7.29	.....	11	8	9	13
1893.....	41.8	70	11	3.48	.....	7	10	11	9
1894.....	40.3	76	11	3.34	.....	10	13	7	10
1895.....	45.7	80	12	3.17	0	10	12	7	11
1896.....	48.2	78	12	3.05	3.2	8	9	9	12
1897.....	43.8	74	10	4.59	1.3	12	8	11	11
1898.....	42.4	70	11	6.76	14.7	14	10	9	11
1899.....	44.0	71	17	2.29	1.1	7	15	8	7
1900.....	47.5	79	15	3.43	T.	9	9	10	11
1901.....	38.5	69	10	2.38	0.8	6	12	9	9
1902.....	49.3	80	20	2.20	0.2	8	10	11	9
1903.....	39.9	79	3	1.26	T.	6	16	8	6
1904.....	40.2	69	6	2.18	1.6	6	12	10	8
1905.....	42.1	70	6	1.84	0.1	6	12	10	8
1906.....	43.6	70	8	1.61	2.3	6	16	7	7
1907.....	43.5	68	13	5.65	0.8	13	10	8	12
1908.....	43.1	72	2	0.96	2.2	4	14	8	8
1909.....	46.4	80	12	2.36	2.1	8	13	8	9
1910.....	40.4	71	13	3.79	1.4	9	5	13	12
1911.....	41.3	73	13	5.17	1.7	10	8	11	11
1912.....	45.3	76	11	3.43	1.3	6	15	8	7
1913.....	46.2	77	21	2.71	T.	7	14	7	9
1914.....	43.3	80	6	2.60	0.7	6	16	8	6
1915.....	44.0	75	17	1.69	0	8	14	8	8
1916.....	43.3	75	12	2.11	T.	8	16	5	9
1917.....	39.8	68	9	0.56	0.7	3	19	5	6
1918.....	43.9	71	12	1.87	0	7	14	6	10
1919.....	43.7	76	13	3.74	T.	11	13	7	10
1920.....	43.0	74	12	4.41	0.2	10	9	6	15
1921.....	44.3	79	18	4.26	0.1	14	9	6	15
1922.....	44.3	73	13	0.91	0.2	6	13	8	9
1923.....	43.1	72	11	2.51	0	7	11	8	11
1924.....	42.9	77	1	2.03	1.3	5	14	8	8
1925.....	42.0	76	10	3.40	0.7	9	14	8	8
1926.....	42.5	76	8	4.04	T.	9	13	8	9
1927.....	47.9	78	15	4.02	0.1	11	10	8	12
1928.....	45.1	78	13	1.90	0.3	9	10	9	11
1929.....	44.5	83	4	2.73	0.4	10	10	7	13
1930.....	44.1	73	2	3.70	0.2	9	12	6	12
1931.....	50.3	80	14	0.82	1.6	6	12	7	11
1932.....	42.0	71	3	7.81	T.	9	14	6	10
1933.....	40.6	78	7	1.01	0.6	7	13	7	10
1934.....	47.3	80	10	2.91	0.1	11	12	6	12
1935.....	47.8	78	8	4.95	2.1	13	7	6	17
1936.....	41.1	80	3	1.18	1.3	6	14	7	9
1937.....	43.7	72	10	4.56	0.2	9	16	5	9
1938.....	45.6	80	-7	3.42	12.6	12	14	6	10
1939.....	41.5	78	12	1.86	0.2	4	17	6	7
1940.....	43.5	76	10	4.66	1.0	10	8	7	15
1941.....	46.8	78	13	2.90	0	5	17	7	6
1942.....	44.9	78	12	4.14	T.	10	14	7	9
1943.....	42.4	73	9	2.89	T.	6	15	8	7
1944.....	43.9	76	13	6.44	0.9	9	10	8	12
1945.....	46.1	80	11	5.54	2.1	12	12	6	12
Period.....	43.7	83	-7	3.26	1.3	8	12	8	10

Climatological Data for November 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	72	49.6	+3.9	71	3	25	24	3.28	+0.46	1.18	14-15	1.1	10	8	10	12	w.	U. S. Weather Bureau.	
Barnegat City.....	Ocean.....	36	49.0		68	3	27	24	7.79		2.47	14		8					U. S. Coast Guard.	
Belleplain.....	Cape May.....	49	48.6	+3.8	75	2†	16	27	4.97	+2.22	2.00	28-29	T.	7	19	0	11	s.	Mrs. Edward C. Hoffman.	
Belmar.....	Monmouth.....	19							6.61		1.66	28		13				nw.	City Water Dept.	
Belvidere.....	Warren.....	289	53	43.4	+2.0	71	8†	20	27	4.93	+1.55	1.03	22	3.0	15	17	2	11	n.	Miss C. S. Hixson.
Berlin.....	Camden.....	70	4						5.72		2.85	28		8	17	5	8	w.	Samuel H. McCulley.	
Boon on.....	Morris.....	280	55	43.0	+1.6	69	9	20	27	5.97	+2.37	1.69	28-29		13	15	0	15	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	62	48.1	+2.4	76	3	23	24†	3.45	+0.63	1.04	28		11	18	1	11	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	4						5.43		3.56	28-29		6					C. D. Scott.	
Burlington.....	Burlington.....	12	59	46.8	+1.1	75	2†	24	24	3.01	-0.16	0.90	28-29		11	18	3	9	sw.	Public Service E. & G. Co.
Canoe Brook††	Essex.....	180	15	43.4	+1.7	75	8	15	27	6.83	+3.00	1.85	28-29		13	10	5	15	w.	N. J. Dept. of Conservation.
Cape May.....	Cape May.....	17	57	49.9	+2.5	73	3	29	24	2.98	+0.34	1.00	19	T.	14	7	14	9	n.	Naval Air Station.
Charlotteburg††	Passaic.....	760	53	44.4	+3.7	71	1	17	24	7.18	+3.40	2.17	22	5.0	12	11	3	16	nw.	Newark Water Dept.
Chatham.....	Morris.....	185	41						6.38	+2.90	1.62	28-29		13	14	6	10		Edward P. Molitor.	
Chatworth.....	Burlington.....	90	5	47.6		78	3	18	24†	6.25		2.44	28-29		9	10	12	8	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	32	48.5	+4.1	80	2	20	24†	5.67	+2.81	2.35	28-29		7	11	3	16	n.	Worthy Hitt.
Clinton.....	Hunterdon.....	300	2						5.61		1.73	22		1.0	16	14	2	14	nw.	L. W. Klockner.
Culvers Lake††	Sussex.....	760	44						4.71	+1.52	0.87	22		3.0	11				L. S. Depue.	
Elizabeth.....	Union.....	34	66	47.1	+3.2	75	8	19	27	7.85	+4.61	1.98	28-29	3.1	14	14	2	14	ne.	Union County Park Comm.
Flemington, 2 mi. N.E.	Hunterdon.....	140	59	46.7	+3.1	73	8	20	27	4.77	+1.56	1.05	28-29	2.0	13	17	1	12	w.	Hiram E. Deas.
Freehold.....	Monmouth.....	194	41	46.4	+1.3	75	3	18	27	7.48	+3.55	3.09	28-29	2.0	12	19	2	9	w.	Moreau Plant Co.
Hammononton.....	Atlantic.....	95	39	49.2	+6.8	79	2	16	27	4.13	+0.96	1.08	21-22†		10	9	10	11	sw.	J. G. Wilson.
Hawthorne.....	Passaic.....	130		44.2		70	1†	21	24†	5.78		1.35	28-29	2.6	15	10	8	12	nw.	Philip J. Del Vecchio.
Hightstown.....	Mercer.....	110	52	47.0	+3.2	74	8	20	27	5.45	+2.19	2.30	28-29	3.0	13	13	8	9	sw.	James R. Pickering.
Indian Mills††, 2 mi. W.	Burlington.....	100	56	47.4	+3.5	77	3	15	27	5.41	+2.29	2.13	28-29	1.0	13	10	11	9	nw.	Edward Entwistle.
Jersey City.....	Hudson.....	81	47	45.2	+0.3	70	9	24	24	4.88	+1.72	1.85	28-29		13	13	3	14	ne.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	41	46.8	+3.0	76	3	22	24†	7.24	+4.14	2.70	28-29	2.0	13	6	14	10	sw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	58	45.4	+2.2	74	8	18	27	4.54	+1.82	1.18	22	1.4	11	9	5	16	sw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex.....	480	44	40.6	+1.1	70	9	11	24	5.41	+2.26	1.47	21-22	4.0	13	9	3	18	s.	A. M. Depue.
Little Falls.....	Passaic.....	157	42	45.2	+2.1	74	8	20	27	6.60	+3.13	1.72	28-29	3.0	12	12	8	10	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	37	46.8	+2.4	76	3	22	24	6.60	+3.21	1.74	28	2.0	13	9	8	13	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	15	42.8	+1.9	71	9	17	24†	6.72	+2.24	2.40	21-22	2.5	11	14	7	9	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington.....	90	4						4.17		2.26	28-29	0.6	12	15	2	13	nw.	David Griscom.	
Mays Landing.....	Atlantic.....	50	1						5.19		1.56	28		1	12	21	6	3	nw.	Elmer Earle.
Millville.....	Cumberland.....	60	5						4.90		1.70	28			7	14	5	11		Paul Ritchie.
Moorestown.....	Burlington.....	62	82	46.1	+3.0	74	2†	21	27	4.89	+1.65	2.33	28-29	1.0	12	12	3	15	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris.....	400	4	44.2		70	1†	17	27	7.05		2.00	28-29	3.0	13	14	0	16		James C. Long.
Newark.....	Essex.....	10	91	46.0	+2.2	75	8	22	24	5.01	+1.53	1.89	28-29	2.9	15	7	9	14	ne.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	91	47.2	+3.5	74	8	21	24	5.21	+1.87	2.28	28-29	2.2	13	11	8	11	nw.	N. J. Experiment Station.
New Milford††	Bergen.....	12	27						5.22	+1.95	1.08	29		12					Hackensack Water Co.	
Newton.....	Sussex.....	769	62	42.4	+1.5	68	8†	18	24†	6.12	+2.89	1.10	22	5.0	15	8	7	15	nw.	Irving J. Keru.
Orange††	Essex.....	140	5						6.28		1.39	19		14					County Engineer.	
Pater-on.....	Passaic.....	95	74	44.9	+1.1	72	8	19	24	5.04	+1.74	1.34	22	2.5	12	10	8	12	w.	J. W. Cook.
Penborton.....	Burlington.....	55	16	49.0	+2.8	76	2†	20	27	4.72	+1.49	1.78	28-29	1.4	12	15	6	9	w.	Charles A. Doehlelt.
Phillipsburg.....	Warren.....	182	56	42.8	+0.9	71	8†	19	24†	5.12	+1.95	0.99	21-22	2.0	15	13	6	11		Town Engineer.
Plainfield.....	Union.....	120	57	45.3	+2.4	74	8	21	24	6.14	+2.80	1.75	28-29	2.6	13	10	7	13	n.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	4						5.85					2.0	10					Walker-Gordon Lab.
Pleasantville††	Atlantic.....	8	47	48.2	+3.2	77	3	17	27	4.27	+1.24	1.23	14-15		12	11	5	14	sw.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	6						4.50		1.20	28		0.3	14	8	12	10	ne.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	28	44.6	+1.6	72	8	21	24†	6.24	+3.06	1.62	28-29	5.0	13	11	6	13	nw.	George P. Kirsten.
Runyon††	Middlesex.....	18	22	43.9	+1.1	72	12†	17	24	5.88	+2.51	2.18	28-29		12	15	8	7	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	1	45.2		74	8	23	24†	6.64		1.30	28-29	4.6	16	5	8	17	nw.	Harold Scott.
Sandy Hook.....	Monmouth.....	15	47	48.0	+2.2	71	3†	25	24	4.75	+1.50	2.03	28-29	2.8	15	6	9	15	n.	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset.....	385	62	45.2	+2.4	71	8†	19	24						7	11	12	w.	Joseph Starkman.	
Sussex.....	Sussex.....	450	50	43.2	+1.8	71	7	11	27	5.94	+2.60	2.50	29	9.0	14	10	5	15	n.	Marshall Hunt.
Toms River.....	Ocean.....	33	24						5.86	+2.19	2.00	28-29	0.5	11					Robt. F. Snyder.	
Trenton.....	Mercer.....	56	73	47.0	+2.6	73	2†	24	24	4.04	+1.31	2.31	28-29	1.9	15	8	8	14	s.	U. S. Weather Bureau.
Trenton No. 2.....	do.....	105	15	46.6	+1.8	74	8	23	24†	5.18	+1.54	1.34	28	2.4	13					Edward H. Ristow.
Tuckerton.....	Ocean.....	23	52	50.8	+5.4	75	3†	26	24	7.14	+4.02	1.60	22	T	13	18	3	9	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	65						4.99	+1.86	1.94	28		T	8	16	5	9	w.	Robert Jones.
Westfield.....	Union.....	145	6						5.62		1.84	28-29	2.0	12	13	3	14	nw.	Town Engineer.	
Woodcliff Lake††	Bergen.....	103	27						5.54	+2.22	1.19	29		13					Hackensack Water Co.	
Woodstown.....	Salem.....	16	10																Geo. S. Keen.	
New York, N. Y.....		10	75	47.4	+3.2	73	8	23	24	4.96	+2.00	1.93	28-29	2.8	15	6	9	15	n.	U. S. Weather Bureau.
Philadelphia, Pa.....		10	75	48.6	+2.9	75	8	25	24	5.69	+2.99	3.38	28-29	0.6	16	10	6	14	nw.	U. S. Weather Bureau.
For the State.....				46.1	+2.4	80	2	11	24†	5.54	+2.28	3.56	28-29	2.1	12	12	6	12	nw.	

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for November 1945

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ¹	Coast			T.	.12							.02	T.		1.02	.17		.02	.03	.56	T.		.40	T.						.81	.07	.06	3.28
Barnegat City ¹	do.				.10							.06			2.47				.87	.61			1.10						2.23	.35		7.79	
Bass River	do.				.13							T.	T.		1.41				.06	.66	T.		1.70							*	2.28	6.24	
Belleplain	Tuckahoe				.35							.05							.42	.18			1.22						.75	2.00		4.97	
Belmar ²	Coast				.08			T.	T.			.05	.03	.03	T.	.64	.18		.01	.10	1.20	.01	1.50					T.	1.66	1.12		6.61	
Belvidere	Delaware		.02	.02								.06	.74	.10	.05	.08	.45		T.	.04	.64	.18	1.03						.36	.88	.28	4.93	
Berlin	Mullica			.20	T.							.15				.75			.12		.70		.85						2.85	.10		5.72	
Boonton ³	Passaic				.02				T.			.47	.46	.06	.10	.29			.05		1.20		.93	.40					.03	1.69	.27	5.97	
Bridgeton	Delaware				.27						T.	T.	.06		.54	.10			.20	.37	.16		.53						1.04	.12	.06	3.45	
Brooklawn	do.										T.	T.	.10	T.	.14	.13				.57	T.								.93	3.56	T.	5.43	
Burlington	do.				.08						T.	.09	.04		.20	.38			*	.20	T.		.70						.27	.90	.15	3.01	
Canoe Brook ³	Passaic				.05							.44	.45	.04	.29	.29			.02		1.50		1.38	.01					.03	1.85	.48	6.83	
Canton	Delaware		T.		.12					.01	.06	T.	.50	.30					.59		.49								T.	.93	.14	3.14	
Cape May ²	Coast			T.	.16						T.	.01	.01	.01	.80	.05		.01	.01	1.00		T.	.21	.02					.58	.04	.07	2.98	
Charlotteburg	Passaic											.72	.35	.03	.06	.48			.07	.22	.89		2.17	T.		T.			.11	1.71	.37	7.18	
Chatham ³	do.				.14							.39	.43	.04	.33	.23			.03		1.57		1.11	.15					.04	1.62	.30	6.38	
Chatsworth	Coast				.33							*	.14				.96			.87			1.41						*	2.44	.10	6.25	
Clayton	Delaware														1.17				.28	.60		.70							.42	2.35	.15	5.67	
Clinton	Raritan			.08	.01						.01	.48	.07	.03	.06	.28		.02	.09	.52	.54		1.73						.88	.63	.18	5.61	
Culvers Lake	do.		.11								T.	.70	.28		T.	.60			.02	.30	.50		.87						.15	.50	.68	4.71	
Elizabeth	Coast			.13	.03						T.	.51	.73	.04	.61	.14			1.04	.17	.90		.92						.30	1.98	.35	7.85	
Essex Fells	Passaic			T.							.47	.38	.02	.67	.26						1.25		1.17	.65					.75	1.45	.46	7.53	
Flemington	Raritan		.02	.05							T.	.53	.11	.04	.19				.38	.34	.85		.75						.28	1.05	.18	4.77	
Freehold	do.				.31							.10	.08		.65	.27			.12	.41	.42		.99						.69	3.09	.35	7.48	
Hammonton	Mullica				.30							.04	.05			.48	.24				.11	1.08							.63	1.08	.12	4.13	
Hawthorne	Passaic	T.	T.	.03	.01						.06	.67	.10	.02	.54	.10		T.	.03	.78	.24		1.15			T.			.30	1.35	.40	5.78	
Hightstown	Raritan		T.	T.	T.						.08	.10	.08	.01	.25	.23			.06	.14	.45		.85						.60	2.30	.30	5.45	
Indian Mills	Mullica				.23						.02	.03	.04	T.	.53	.25			.08	.54	.41		1.05						.40	1.73	.10	5.41	
Jersey City ²	Coast			.08	.04						.04	.60	.06		.47				T.	.04	.65	.09		.66					1.15	.70	.30	4.88	
Lakewood	Metedeconk				.15						.05	.07	.08		.65	.35			.14	.20	.53		1.27						.75	2.70	.30	7.24	
Lambertville	Delaware		.08	T.							T.	.32	.07		.34	.24			.05	.15	.11		1.18						.92	1.10	.22	1.54	
Layton	do.		.13	.06							T.	.63	.25		.07	.42			.05	.33	.39		1.47						.12	1.06	.43	5.41	
Little Falls ³	Passaic				.03							.47	.38	.03	.60	.26			.03	1.20		1.45							.02	1.72	.41	6.60	
Long Branch ²	Coast		T.	T.	.12						.02	.12	.03		.66	.17			.09	.98	.02		1.39						1.74	1.18	.08	6.60	
Long Valley ³	Raritan			.04	.03							.55	.38	.18			.59		.06		1.10		2.40	T.						1.17	.22	6.72	
Manville	do.											.60	.50	.05	.47	T.			1.00	.30		1.49							1.45	.52	.03	6.41	
Marlton	Delaware				.07						.05	.06			.32	.10			.12	.42	.10		.61						1.00	1.26	.06	4.17	
Mays Landing	Gt. Egg Harbor				.25						T.	.01	.01	.87	.25				.02	.52	.25		1.44						.47	1.09	.01	5.19	
Midland Park	Passaic		.01								.12	.63	.09	.12	.27	.08			.06	.85	.18		1.33						.60	1.09	.15	5.58	
Millville ²	Maurice			T.	.20							.03			.76	.11			.63			T.	1.38						1.70			4.90	
Moorestown ³	Delaware			.02							.03	.02	.07	T.	.06	.26			.09		.45		.45						.01	2.33	1.10	4.89	
Morris Plains	Passaic		T.	.01	.02						.04	.78	.21	.04	.18	.36			.05	.19	1.31		1.44						.23	2.00	.25	7.05	
Morris Plains	Passaic		T.	.06	.01						.04	.47	.06	.11	.38	.06			.03	.70	.04		.77						1.32	.70	.26	5.01	
Newark ¹	Coast		T.	.06	.01						T.	.26	.07	.02	.40	.16			.04	.12	.73		.70						.24	2.28	.17	5.21	
New Brunswick	Raritan			T.	.02						.10	.57	.08	.04	.38	.07			.02	.92	.14		.92						.78	1.08	.14	5.22	
New Milford ²	Hackensack										.06	.85	.05	.04	.30	.34	T.		1.05	.38	.46		1.10						.21	.94	.22	6.12	
Newton	Delaware		.06	.06								*	.82	.04	.61	.04			.01	1.39	.09		1.14						.44	1.78	.14	6.28	
Orange ²	Passaic			.02							.09	.53	.07	.30	.40				.03	.90	.10		1.34						.77	.50	.01	5.04	
Paterson ¹	do.										T.	.05	.03	T.	.46	.19			.09	.28	.32		.73						.44	1.78	.14	4.72	
Pemberton	Delaware				.21						T.	.05	.03	T.	.46	.19			.09	.28	.32		.73						.92	.80	.12	5.12	
Phillipsburg	do.		.04	.11							.15	.56	.05	.10	.36	.14			T.	.08	.58	.12	T.	.99					.92	.80	.12	5.12	
Plainfield	Raritan				.10						T.	.50	.08	.05	.80	.13			.05	.90	.09		.96						.40	1.75	.33	6.14	
Plainsboro	do.										.04	.12	.06	.10	.28				.90				1.10						*	2.95	.30	5.85	
Pleasantville ³	Coast				.12	.02						.46	.04	.05	.43	.06			.05		.53		.84	.09						.92	.34	4.27	
Rahway ²	Rahway			.10							.02	.46	.04	.05	.43	.06			.08	.76	.08		.70						1.20	.49	.03	4.50	
Ridgefield	Hackensack			T.	.05																												

Daily Temperatures for November 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	62	66	71	50	50	60	63	65	66	63	57	62	64	63	49	56	60	64	58	52	53	59	42	40	49	47	50	54	50	36	56.0
	Minimum...	52	56	50	39	35	42	57	60	60	49	51	56	57	41	38	38	51	45	43	35	31	37	31	25	36	34	30	49	36	32	43.2
Barnegat City†.....	Maximum...	62	65	69	48	49	59	64	65	67	67	57	60	64	63	49	54	61	60	57	58	55	60	43	39	46	45	48	53	53	51	56.4
	Minimum...	51	52	48	39	36	35	46	57	57	50	49	56	56	46	36	36	42	43	41	33	31	43	32	27	33	32	31	48	33	32	41.7
Belleplain.....	Maximum...	66	75	73	69	66	62	71	75	75	68	65	70	72	68	52	55	62	62	58	51	51	62	47	40	48	47	50	58	44	46	60.3
	Minimum...	48	38	37	37	28	25	32	51	59	54	43	51	52	50	35	35	33	26	43	42	35	45	24	20	25	22	16	30	42	30	36.9
Belvidere.....	Maximum...	63	55	64	48	51	62	62	71	71	61	46	55	65	63	45	43	58	59	50	47	47	55	34	36	45	42	45	46	45	35	52.3
	Minimum...	37	42	40	38	27	28	32	40	53	45	39	41	52	44	30	31	29	45	29	34	24	30	25	21	30	27	20	34	34	31	34.4
Boonton /.....	Maximum...	66	61	65	46	49	61	65	68	69	54	49	56	64	56	44	54	60	59	49	43	55	57	35	36	45	48	45	47	38	34	52.4
	Minimum...	37	39	42	44	32	27	33	47	39	39	39	45	52	37	36	29	30	28	30	24	27	28	22	33	29	20	24	36	29	33.5	
Bridgeton.....	Maximum...	62	74	76	58	49	62	67	72	75	67	55	63	70	64	47	51	60	62	56	56	48	59	41	40	47	45	50	53	53	41	57.5
	Minimum...	47	45	55	40	29	32	40	50	55	48	43	52	56	38	39	32	36	43	42	40	27	37	31	23	28	30	23	37	40	32	38.7
Burlington.....	Maximum...	70	75	70	50	49	60	71	75	75	68	50	67	72	56	53	55	62	60	45	45	45	50	37	38	47	48	45	53	40	34	55.5
	Minimum...	47	47	50	41	32	36	42	55	48	42	47	50	49	38	35	32	38	40	38	28	35	28	24	36	30	25	38	32	32	32	38.2
Canoe Brook /.....	Maximum...	65	67	68	48	53	65	66	75	71	55	49	58	65	56	47	56	62	62	53	46	59	57	35	33	34	47	39	49	42	34	53.9
	Minimum...	32	36	46	41	26	24	29	28	48	54	40	40	49	51	38	28	25	45	25	31	21	32	26	18	25	23	15	25	37	29	32.9
Cape May*.....	Maximum...	64	66	73	50	48	60	63	65	65	62	58	61	64	61	48	55	61	61	58	52	54	59	41	40	46	46	50	56	50	38	55.8
	Minimum...	52	57	53	39	36	44	53	56	58	50	49	56	56	44	39	42	50	47	44	41	32	41	30	29	38	35	31	48	39	32	44.0
Charlotteburg.....	Maximum...	71	60	65	61	56	65	63	70	68	69	57	52	62	64	55	52	61	58	52	47	48	55	45	39	44	42	48	44	45	37	55.2
	Minimum...	37	34	49	39	24	26	30	40	51	41	37	40	50	49	34	29	21	46	23	34	24	35	24	17	29	24	20	39	33	27	33.5
Chatsworth.....	Maximum...	65	73	78	70	55	67	71	75	75	72	53	63	73	67	52	55	64	58	54	51	55	60	47	39	45	44	50	51	52	40	59.3
	Minimum...	43	38	49	39	30	24	33	45	57	47	43	52	55	51	37	30	28	48	25	42	21	37	23	18	26	22	18	28	40	30	36.0
Clayton.....	Maximum...	70	80	72	75	54	66	70	74	75	71	60	61	71	73	55	55	53	62	60	56	50	60	58	46	47	45	51	52	52	45	60.6
	Minimum...	43	41	52	28	25	28	47	48	57	54	40	51	55	50	36	30	29	30	40	25	28	29	20	23	30	29	20	34	40	30	36.4
Elizabeth.....	Maximum...	69	69	70	55	58	64	75	72	66	50	59	69	68	60	57	60	63	57	53	49	59	44	40	50	49	40	52	46	38	37	57.8
	Minimum...	39	49	51	40	38	27	33	41	49	48	43	43	56	47	38	31	27	48	29	35	22	39	28	20	30	27	19	31	36	27	36.4
Flemington.....	Maximum...	68	60	69	55	56	69	70	73	72	67	48	48	58	65	51	58	63	63	53	49	51	57	43	41	48	48	52	49	47	39	56.9
	Minimum...	56	41	50	40	29	32	42	47	48	40	42	44	52	54	41	37	29	26	47	30	39	24	37	27	21	30	29	20	30	30	36.5
Freehold.....	Maximum...	68	70	75	60	49	63	68	73	72	65	50	58	73	65	50	53	62	61	55	56	50	59	41	39	46	45	48	51	51	40	57.2
	Minimum...	39	39	49	35	28	29	36	49	54	45	39	57	52	46	34	29	34	50	31	34	22	36	26	19	25	23	18	32	37	25	35.7
Hammonton.....	Maximum...	70	79	78	70	62	68	74	78	77	69	55	65	74	65	65	65	65	65	62	67	53	62	54	36	43	45	48	54	47	40	61.7
	Minimum...	45	39	48	43	28	25	37	47	55	47	42	50	55	45	35	29	34	46	36	39	24	35	26	18	25	15	16	38	37	28	36.6
Hawthorne.....	Maximum...	70	62	66	47	50	62	62	70	70	62	44	54	65	65	46	55	58	60	52	48	47	57	40	38	46	43	44	48	41	32	53.5
	Minimum...	36	40	47	41	32	33	41	51	41	40	44	52	44	37	35	29	37	29	33	26	36	28	21	27	29	21	30	31	28	30	34.9
Hightstown.....	Maximum...	68	73	73	58	50	62	68	74	72	66	49	58	72	67	50	53	60	60	54	56	50	60	43	38	45	46	49	51	48	40	57.1
	Minimum...	39	39	50	41	29	28	30	50	55	47	39	46	55	49	36	32	34	40	39	39	24	38	27	21	28	27	20	31	38	29	36.9
Indian Mills.....	Maximum...	67	76	77	58	49	66	72	75	76	66	52	62	72	67	49	55	63	62	55	57	50	61	40	39	47	46	50	51	53	40	58.4
	Minimum...	43	39	49	39	27	25	35	51	54	48	42	51	56	48	36	31	29	50	26	37	22	39	25	18	25	25	15	33	40	30	36.3
Jersey City*.....	Maximum...	57	60	66	45	48	54	58	69	70	59	49	55	65	58	47	54	54	60	52	49	43	56	36	35	44	43	44	48	43	29	51.7
	Minimum...	42	49	45	37	33	37	46	51	58	40	40	49	54	40	37	37	40	52	38	30	28	36	28	24	32	32	25	33	29	26	38.6
Lakewood.....	Maximum...	65	70	76	61	49	62	68	74	75	65	51	61	75	65	49	53	62	61	55	56	48	59	42	38	46	44	46	51	50	38	57.2
	Minimum...	44	37	50	38	32	28	34	47	56	51	43	51	48	49	37	29	35	39	38	24	36	30	22	27	28	22	28	38	29	29	36.4
Lambertville.....	Maximum...	68	62	66	52	50	62	68	74	72	58	57	67	65	49	52	60	61	57	49	48	57	41	40	44	44	47	47	50	52	35	55.5
	Minimum...	37	40	49	39	28	28	32	40	53	45	39	43	53	47	36	32	28	47	29	35	25	35	25	21	30	24	18	36	33	29	35.2
Layton.....	Maximum...	67	55	62	46	49	66	67	70	62	40	53	63	63	42	36	58	55	47	45	45	53	40	36	44	40	40	45	40	43	34	51.0
	Minimum...	27	35	46	35	26	22	26	35	42	40	37	38	51	42	32	24	25	32	23	34	20	34	21	11	26	23	13	27	31	30	30.3
Little Falls /.....	Maximum...	63	64	67	47	52	64	71	71	53	51	60	66	56	47	55	62	60	53	45	58	56	37	42	47	44	46	48	40	40	34	54.2
	Minimum...	37	40	51	41	30	28	32	43	51	52	40	40	50	52	38	35	30	44	29	35	27	34	28	22	32	28	20	28	37	28	36.1
Long Branch*.....	Maximum...	61	67	76	46	50	59	65	73	75	63	53	60	73	65	47	53	65	62	57	52	51	59	38	38	46	46	47	51	50	33	56.0
	Minimum...	42	39	46	39	35	32	39	53	59	45	44	52	55	42	32	32	37	41	33	33	26	34	27	22	29	29	24	47	33	30	37.7
Long Valley /.....	Maximum...	62	58	64	45	51	67	64	70	71	53	56	58	61																		

51.05
NNJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. L.

DECEMBER 1945.

No. 12

GENERAL SUMMARY.

December was again colder than normal for the fourth consecutive year and the average for this month, 29.0° is the lowest for any December since 1935. There were mild periods from the 6th to 10th and from the 25th to 31st, during which the temperature averaged a little warmer than normal, but the remainder of the month was decidedly colder than normal. The period from the 11th to 24th averaged 12° below normal at Trenton. Many interior stations reported readings below zero during that period in both north and south Jersey.

The first heavy snow of the season fell on the 19th. It covered the entire State with amounts ranging from six inches at Cape May to ten inches in extreme northern localities. With cold weather continuing, snow remained on the ground to provide the first white Christmas throughout New Jersey for ten years. Rainfall which began on Christmas day, however, left little on the ground after the 26th. Total precipitation for the month with rain greatly predominating, was 142 percent of normal and the heaviest for December since 1936. Rainy days were frequent and cloudiness greater than usual. For the first time in several months, precipitation was greater in south Jersey than in the northern counties. There were winds of gale force on the coast on the 5, 6, and 29th. The average New Jersey precipitation for the year 1945 was 52.38 inches which was 6.80 inches above normal.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 44 stations, was 29.0°, which was 4.8° below normal. The highest temperature was 64° at Hammon-ton on the 8th, and the lowest, -11°, at Runyon on the 18th. The highest monthly average temperature was 34.0° at Cape May, and the lowest, 24.8° at Layton. The temperature departure from the normal for the year 1945, for the State, was +0.6°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 61 stations, was 5.03 inches, which was 1.50 inches above normal. The average total snowfall at 30 selected stations was 14.5 inches, which was 9.2 inches above normal. The greatest monthly precipitation was 7.95 inches at Hammon-ton, and the least, 2.52 inches at Layton. The greatest amount of precipitation in any 24 consecutive hours was 2.76 inches at Atlantic City on the 28-29th. The average for the Highlands was 4.03 inches; for the Red Sandstone Plain, 4.53 inches; for the Southern Interior, 5.50 inches; and for the Sea Coast, 6.32 inches. The precipitation accumulated departure from the normal for the year 1945, to date, by sections, is: the Highlands, +14.85 inches; Red Sandstone Plain, +8.90 inches; Southern Interior, +3.03 inches; Sea Coast, +2.59 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 6, 25, 26, 31.

SLEET: 3, 5, 6, 10, 14, 15, 19, 25, 29.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind			Relative Humidity			Percentage of sunshine	Degree days	
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.			7:30 p. m.
Atlantic City.....	30.50	18	29.30	31	16.6	61	ue.	6	85	75	76	42	981
Long Branch.....	30.45	20	29.28	31	14.3	48	ne.	6	75	58	64	48	1074
Trenton.	30.50	18	29.30	31	9.4	26	nw.	23	78	64	67	48	1079

COMPARATIVE DATA FOR DECEMBER.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	35.3	60	6	3.15					
1886.....	29.1	60	-2	3.51					
1887.....	33.7	62	6	5.29		10			
1888.....	34.9	65	5	3.69		8			
1889.....	41.5	71	8	1.62		9			
1890.....	30.9	56	3	3.89		8	11	10	10
1891.....	40.9	71	9	4.25		8	13	9	9
1892.....	30.4	68	1	1.87		6	9	11	11
1893.....	34.9	70	5	3.39		11	11	10	10
1894.....	34.8	66	-3	4.36		9	12	9	10
1895.....	37.2	70	3	2.61	0.4	6	11	9	11
1896.....	31.3	64	-15	1.48	10.7	4	14	9	8
1897.....	35.1	69	3	4.90	3.4	11	8	11	12
1898.....	33.3	66	-2	3.53	2.0	9	12	10	9
1899.....	35.5	69	-1	2.11	0.5	7	14	10	7
1900.....	34.4	64	-2	2.59	4.1	6	14	10	7
1901.....	32.6	68	-8	7.30	2.1	11	12	9	10
1902.....	31.7	62	-11	7.23	9.1	13	13	7	11
1903.....	28.6	56	-13	4.08	9.2	9	14	9	8
1904.....	27.0	60	-15	3.19	21.1	12	10	7	14
1905.....	36.3	61	5	3.65	1.5	7	14	8	9
1906.....	33.0	70	-5	3.99	1.4	13	9	8	14
1907.....	36.6	70	-3	4.91	5.9	9	12	8	11
1908.....	34.0	72	-1	3.63	7.8	11	10	8	13
1909.....	29.8	60	-15	4.45	12.6	5	14	8	9
1910.....	26.5	58	-14	2.79	11.3	9	11	10	10
1911.....	38.4	70	2	3.77	5.6	11	10	7	14
1912.....	36.9	68	-1	4.73	11.0	9	12	9	10
1913.....	37.7	68	-11	3.03	0.8	7	13	9	9
1914.....	31.1	66	-9	5.86	2.4	12	10	6	15
1915.....	31.9	64	3	4.82	13.6	8	12	9	10
1916.....	32.3	70	-8	4.61	12.6	11	13	8	10
1917.....	24.8	54	-21	3.18	11.5	8	13	7	11
1918.....	37.5	66	9	3.92	0.5	10	12	7	12
1919.....	28.8	67	-18	2.98	6.8	12	10	8	13
1920.....	36.4	69	7	5.10	1.0	8	11	8	12
1921.....	32.3	64	-4	2.37	6.2	9	13	8	10
1922.....	32.5	65	-8	3.86	7.3	12	9	9	13
1923.....	40.8	69	9	4.14	2.6	12	13	7	11
1924.....	32.8	68	-4	2.58	0.4	8	10	8	13
1925.....	34.0	61	-5	2.84	0.6	10	13	7	11
1926.....	28.4	52	-7	3.44	8.2	11	11	7	13
1927.....	35.3	70	2	4.54	T.	12	13	6	12
1928.....	36.3	63	3	1.64	2.7	8	15	5	11
1929.....	33.8	68	2	3.01	4.1	10	11	6	14
1930.....	33.0	60	-5	2.67	5.2	8	10	7	14
1931.....	39.6	72	7	2.27	0.4	9	13	5	13
1932.....	36.0	69	-6	3.08	10.1	13	12	6	13
1933.....	31.8	72	-18	3.19	7.4	12	12	5	14
1934.....	33.2	69	-3	2.90	0.1	8	14	7	10
1935.....	28.9	60	-14	1.67	9.7	9	10	8	13
1936.....	37.5	67	-3	6.29	0.6	12	12	6	13
1937.....	33.2	70	0	1.75	0.6	7	13	6	12
1938.....	34.8	67	1	2.80	1.4	10	11	6	14
1939.....	35.2	69	-1	1.54	3.9	8	10	8	13
1940.....	37.0	67	-4	3.00	3.1	10	12	7	12
1941.....	37.2	70	0	3.70	0.4	7	12	8	11
1942.....	30.0	67	-17	4.55	7.0	11	10	7	14
1943.....	31.1	62	-10	1.41	0.1	3	16	8	7
1944.....	30.7	58	-14	3.02	5.7	9	11	7	13
1945.....	29.0	64	-11	5.03	14.5	11	11	5	15
Period.....	33.8	72	-21	3.53	5.3	9	12	8	11

Climatological Data for December 1945

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	72	33.4	-3.0	59	8	11	23	7.86	+3.92	2.76	28-29	12.4	12	7	7	17	w.	U. S. Weather Bureau.
Baruegat City.....	Ocean.....	36	6	31.9	.....	54	8	10	24	4.20	.....	1.15	19	.....	12	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	51	30.3	-5.3	57	9	0	22	7.40	+3.86	.....	.....	13.0	13	12	0	19	nw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	4	.....	.....	.....	.....	.....	.....	5.96	.....	1.87	29	.....	14	.....	.....	.....	City Water Dept.	
Belvidere.....	Warren.....	289	53	27.1	-4.0	54	8	4	22†	4.26	+0.52	0.82	26	18.5	10	13	1	17	w.	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	4	.....	.....	.....	.....	.....	.....	5.24	.....	1.28	25	.....	8	15	3	13	nw.	Samuel H. McCulley.
Boonton.....	Morris.....	280	55	26.5	-3.8	53	8	3	21†	3.25	-0.03	1.31	25-26	.....	11	13	0	18	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	62	30.6	-5.6	51	9	7	24	5.83	+2.37	1.85	29	11.5	11	14	1	16	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	4	.....	.....	.....	.....	.....	.....	4.29	.....	1.10	25-26	14.7	7	.....	.....	.....	C. D. Scott.	
Burlington.....	Burlington.....	12	59	31.0	-4.4	54	9	8	18†	4.24	+0.45	1.05	28-29	12.5	8	16	2	13	nw.	Public Service E. & G. Co.
Canoe Brook††	Essex.....	180	15	25.3	-6.4	56	8	9	24	4.66	+1.60	1.70	25	.....	10	12	4	15	w.	N. J. Dept. of Conservation.
Cape May.....	Cape May.....	17	57	34.0	-4.0	51	9	15	23	7.12	+3.85	2.49	29	6.1	12	5	8	18	nw.	Naval Air Station.
Charlotteburg††	Passaic.....	760	53	26.5	-4.1	52	9†	4	23	4.50	+0.59	2.13	25-26	.....	11	9	3	19	uw.	Newark Water Dept.
Chatham.....	Morris.....	185	41	.....	.....	.....	.....	.....	.....	4.87	+1.01	1.75	25-26	16.0	10	11	9	11	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	5	29.4	.....	59	9	7	18	6.04	.....	2.05	28-29	.....	9	9	7	15	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Worthy Hitt.	
Clinton.....	Hunterdon.....	300	2	.....	.....	.....	.....	.....	.....	4.58	.....	1.60	25	16.2	12	12	5	14	nw.	L. W. Klockner.
Culvers Lake††	Sussex.....	760	44	.....	.....	.....	.....	.....	.....	3.59	+0.43	1.13	26	17.5	10	.....	.....	.....	L. S. Depue.	
Elizabeth.....	Union.....	34	66	28.9	-4.9	57	8	0	24	5.52	+1.84	1.35	19-20	14.8	11	15	1	15	n.	Union County Park Comm.
Flemington, 2 mi. N.E.....	Hunterdon.....	140	59	29.6	-3.4	55	8	4	22†	4.68	+1.20	1.42	25-26	17.5	11	15	4	12	w.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	54	29.4	-5.6	52	8†	3	24	4.23	+0.71	1.22	25	12.2	10	16	3	12	w.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	39	29.5	-3.7	64	8	1	18	7.95	+4.59	1.92	28-29	.....	9	7	5	19	sw.	J. G. Wilson.
Hawthorne.....	Passaic.....	130	.....	28.2	.....	53	8	3	24	5.24	.....	1.83	25-26	20.3	12	8	12	11	w.	Philip J. Del Vecchio.
Hightstown.....	Mercer.....	110	52	28.6	-4.8	53	9	1	24	4.35	+1.06	1.20	28-29	13.4	12	11	7	13	nw.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington.....	100	56	29.6	-5.0	57	9	2	18	5.95	+2.17	2.11	28-29	10.0	10	9	7	15	w.	Edward Entwistle.
Jersey City.....	Hudson.....	81	47	28.2	-6.8	51	8	8	23	3.55	+0.11	0.97	25	.....	10	11	7	13	ne.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	41	29.6	-4.9	58	9	1	18	6.18	+2.50	2.00	29	13.5	11	6	10	15	uw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	58	28.6	-4.8	53	9	2	23	5.01	+1.47	1.61	25-26	13.4	14	10	0	21	nw.	Mabel Wollaston.
Layton††, 3 miles NW.....	Sussex.....	480	44	24.8	-3.6	51	8	5	18	2.52	-0.70	1.11	25-26	21.8	10	12	1	15	ne.	A. M. Depue.
Little Falls.....	Passaic.....	157	42	29.0	-3.8	55	8	1	24	5.08	+1.41	2.07	25-26	19.0	10	7	10	14	nw.	Passaic Valley Water Co.
Loug Branch.....	Monmouth.....	34	37	30.2	-4.5	59	9	8	18†	5.36	+1.73	1.79	28-29	12.8	15	12	2	17	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	15	26.8	-3.4	55	8	3	21	4.87	+1.63	1.85	25	21.0	11	13	6	12	w.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	4	.....	.....	.....	.....	.....	.....	5.01	.....	1.40	28-29	11.6	11	11	6	14	uw.	David Griscom.
Mays Landing.....	Atlantic.....	50	1	.....	.....	.....	.....	.....	.....	7.44	.....	2.55	28-29	9.5	13	10	4	17	nw.	Elmer Earle.
Millville.....	Cumberland.....	60	5	.....	.....	.....	.....	.....	.....	5.76	.....	1.84	28-29	10.0	10	13	3	15	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	82	29.8	-4.2	56	9	6	18	3.96	+0.53	1.04	25-26	9.4	9	.....	.....	.....	Japanese Beetle Laboratory	
Morris Plains, 1 mi. W.....	Morris.....	400	4	27.3	.....	54	8	0	22	4.73	.....	1.78	25	18.9	10	13	3	15	.....	James C. Long.
Newark.....	Essex.....	10	91	29.0	-4.7	54	8	9	21†	4.33	+0.56	1.14	28-29	16.5	16	7	8	16	w.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	91	28.9	-4.6	52	8	3	24	3.90	+0.47	1.13	28-29	13.3	11	14	4	13	nw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	27	.....	.....	.....	.....	.....	.....	4.89	+1.86	1.24	25	.....	11	.....	.....	.....	Hackensack Water Co.	
Newton.....	Sussex.....	769	62	25.3	-5.1	52	8	4	17	3.86	+0.52	0.87	25-26	21.7	14	11	4	16	nw.	Irving J. Kern.
Orange††.....	Essex.....	140	5	.....	.....	.....	.....	.....	.....	5.17	.....	1.92	25	.....	9	.....	.....	.....	County Engineer.	
Paterson.....	Passaic.....	95	74	28.2	-5.3	51	9	5	24	4.53	+0.78	1.72	25-26	18.0	14	10	8	13	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	16	31.0	-5.2	58	9	2	18	4.95	+2.49	1.65	28-29	8.5	13	10	6	15	w.	Charles A. Doehlert.
Phillipsburg.....	Warren.....	182	562	26.7	-5.1	51	8	3	23	4.27	+0.77	1.33	25-26	18.4	11	14	5	12	.....	Town Engineer.
Plauifield.....	Union.....	120	57	29.2	-3.9	53	8	4	24	4.92	+1.31	1.12	28-29	16.7	12	8	7	16	nw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	4	.....	.....	.....	.....	.....	.....	4.07	.....	1.05	25	10.5	9	.....	.....	.....	Walker-Gordon Lab.	
Pleasantville††.....	Atlantic.....	8	47	31.9	-3.6	57	8†	0	18	7.35	+3.58	2.69	28-29	.....	11	7	6	18	nw.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	6	.....	.....	.....	.....	.....	.....	3.45	.....	1.08	28-29	12.2	12	9	4	18	nw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	28	27.9	-4.3	54	8	4	24	5.32	+2.14	1.56	25-26	19.2	11	12	3	16	uw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	22	25.4	-7.0	48	25	11	18	5.51	+2.40	1.58	28-29	.....	9	19	6	6	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	1	29.2	.....	55	8	6	24	5.09	.....	1.44	25-26	21.6	12	7	4	20	nw.	Harold Scott.
Sandy Hook.....	Monmouth.....	15	47	30.9	-4.3	51	9	12	23	7.11	+3.07	2.71	28-29	9.9	13	6	7	18	nw.	U. S. Coast Guard.
Somerville, 2 mi. N.....	Somerset.....	385	62	28.9	-3.9	58	8	4	23	3.07	-0.43	0.82	29	.....	7	10	7	14	w.	Joseph Starkman.
Sussex.....	Sussex.....	450	50	25.6	-4.6	51	8	8	23	4.13	+0.85	1.00	25	19.7	10	10	3	18	w.	Marshall Hunt.
Toms River.....	Ocean.....	33	24	.....	.....	.....	.....	.....	.....	5.23	+1.26	2.00	28-29	11.0	9	.....	.....	.....	Robt. F. Snyder.	
Trenton.....	Mercer.....	56	73	30.3	-4.1	54	9	10	17	3.85	+0.50	0.89	25	12.5	13	6	8	17	nw.	U. S. Weather Bureau.
Trenton No. 2.....	do.....	105	15	30.1	-3.8	53	8	9	23	5.05	+2.02	1.24	25-26	14.1	14	.....	.....	.....	Edward H. Ristow.	
Tuckerton.....	Ocean.....	23	52	32.0	-4.2	59	9	9	17†	5.52	+1.69	1.20	6	11.0	8	16	4	11	uw.	John H. Brown.
Vineland.....	Cumberland.....	110	65	.....	.....	.....	.....	.....	.....	5.58	+1.91	1.86	25-26	.....	11	12	6	13	ne.	Robert Jones.
Westfield.....	Union.....	145	6	.....	.....	.....	.....	.....	.....	4.56	.....	1.52	25-26	13.0	9	14	3	14	n.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	27	.....	.....	.....	.....	.....	.....	5.37	+2.30	1.64	25	.....	12	.....	.....	.....	Hackensack Water Co.	
Woodstown.....	Salem.....	16	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. S. Keen.	
New York, N. Y.....	.....	10	75	30.9	-4.1	55	8	10	23	4.44	+0.82	1.36	28-29	15.6	13	8	6	17	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	75	32.0	-4.3	55	8	13	17	5.05	+1.62	1.03	5-6	13.4	14	9	5	17	nw.	U. S. Weather Bureau
For the State.....	.....	.....	.....	29.0	-4.8	64	8	11	18	5.03	+1.50	2.76	28-29	14.5	11	11	5	15	nw.	.....

All departures from normal are computed from the averages of the entire period of record through 1940 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for December 1945

Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic City ¹	Coast			T.		1.09	.57	T.			.81			.07	.26		T.		.03	.89	T.		.01			.88			.34	2.42		.49	7.86		
Barneget City ¹	do.		.02			.41	.19	.01			.42						T.			1.15						.25	.36		.12	.50	.13	.64	4.20		
Bass River	do.																																		
Belleplain	Tuckahoe				.10	.58	.42	.05			.72	.15			.20						.70						.18	.78		* 3.02		.50	7.40		
Belmar ²	Coast				.29	.24	.01				.25			.02	.22						.49	T.		.02			1.80	.03		.13	1.87	.10	.49	5.96	
Belvidere	Delaware			.04		T.	.51				.36				.18		T.				.50	.60					.67	.82			.18	.40	4.26		
Berlin	Mullica				.90	.30					T.				.22						.42			T.			1.28			.90	.70	.40	.34	5.25	
Boonton ³	Passaic	T.			T.	.25	.03				.09				.22		T.				.42	.34		T.	.01			1.31		.40	.30	.18	3.25		
Bridgeton	Delaware			.06	T.	.49	.71	T.			.37	T.			.32						.47						.25	.62		1.85	.10	.59	5.83		
Brooklawn	do.					T.	.81				.28	T.			.15						T.	1.10					T.	1.10		.81		.72	4.29		
Burlington	do.					T.	.50				.20				.25						.95	.19					.16	.94		1.05		.42	4.24		
Canoe Brook ³	Passaic					.43	.05				.14				.21		T.				.27	.57	T.	T.	T.			1.70		.48	.50	.31	4.66		
Canton	Delaware				.01	.02	1.82	.28	T.		.02	T.			.24						.60	.70						.20		1.05	.16	.62	4.69		
Cape May ¹	Coast										.59			.01	.19	T.			T.		.78	T.		T.			.22		.35	2.49	T.	.66	7.42		
Charlotteburg	Passaic					.43	.09				.19				.24						.54	.13		.02			.38	1.75		.18		.55	4.50		
Chatham ³	do.	.07					.40	.07			.16				.24						.27	.49						1.75			1.03	.39	4.87		
Chatsworth	Coast					* 1.04					.20			.25							.70							* 1.15		2.05		.65	6.04		
Clayton	Delaware																																		
Clifton	Raritan			T.			.49	.25			.30				.17						.45	.08	T.	.08			1.08	.42		.72	.16	.38	4.58		
Culvers Lake	do.			T.			.18	.13			.08				.20						.45	.20						14	1.13		.66		.42	3.59	
Elizabeth	Coast						.48	.06			.07	T.		T.	.42						1.14	.21		T.				13	1.21		1.11	.07	.62	5.32	
Essex Fells	Passaic					.33	.25	T.		.13					.28		T.				.42	.58		T.				1.79		.33	.57	.27	.16	5.11	
Flemington	Raritan			T.			.45				.28				.31						.67	.20		.04				.24	1.18		.76	.03	.52	4.68	
Freehold	do.					.50	.14				.32				.22						.33						*	1.22		1.20	.28	.42	2.33		
Hammononton	Mullica				.91	.74					.09				.38						1.80							.31	1.08		1.92		.72	7.95	
Hawthorne	Passaic		.02				.61	.26			.13				.20		.03				.95		T.				.08	1.75	T.	.80	.04	.37	5.24		
Hightstown	Raritan			T.			.43	.05			.15	.02			.23						.47	.13	T.	.01				*	1.01	T.	1.20	T.	.65	4.35	
Indian Mills	Mullica			T.	T.	.15	.81	T.			.26	T.			.17		T.				.70	.02		T.				.16	.88		T.	2.11	T.	.69	5.95
Jersey City ²	Coast				.15	.04					.10				.24						.45			.04				.97		.90	.23	.43	3.55		
Lakewood	Metedeconk				T.	.86	.15				.30	T.			.25		T.				.70	.08		.05			.28	.86		2.00	T.	.65	6.18		
Lambertville	Delaware		.06	T.		.22	.32	.14			.20				.28						.65	.06		.05				1.12	.49		.80	.10	.52	5.01	
Layton	do.					.04					.04				.10		.01				.40	.25					*	1.11		.55	.02		2.52		
Little Falls ³	Passaic			T.			.46	.07			.15				.22						.30	.45		T.	T.			2.07		.57	.46	.33	5.08		
Long Branch ¹	Coast			T.		.26	.25	.06			.32	T.		.03	.25		T.				.59	T.	.01	.01			1.13	.01		.11	1.68	.18	.47	5.36	
Long Valley ³	Raritan				.25		.18	.04			.40				.30							.80			.05				1.85		.30	.40	.30	4.87	
Manville	do.					.05	.18	.02			.28			T.	.15						.42	.01		T.				.91			.88	.16	.30	3.36	
Marlton	Delaware					.10	.80				.26				.18						.58			.04				.50	.42		1.40	.10	.63	5.01	
Mays Landing	Gt. Egg Harbor			T.	.01	.28	1.59	.02			.48	.01			.23						.50	.12						.50	.67		2.55		.48	7.44	
Midland Park	Passaic				.01	.26	.11				.21			.01	.24						.73	.01						1.86	.10		1.13	.20	.30	5.17	
Millville ¹	Maurice					.99	.31				.51				.22					*	.80						1.04		.30	1.54	.05		5.76		
Moorestown ³	Delaware	T.		T.	T.	.72	.07				.23				.16		T.				.22	.16		T.	T.			1.04		.56		.80	3.96		
Morris Plains	Passaic	T.		T.		.36	T.				.14	T.			.24						.52	.11		.01				14	1.64	T.	.99	T.	.58	4.73	
Newark ¹	Coast		.01		.13	.29	.01			.09	T.			T.	.24		.01				.64	.02	T.	.02			1.11	.03		.02	1.12	.17	.42	4.33	
New Brunswick	Raritan	T.		T.		.35	.02			.12	T.				.22						.32	.10	T.	.05				1.13	T.		1.13	T.	.58	3.90	
New Milford ¹	Hackensack				.03	.49	.13				.12				.25						.80	.08					1.24			1.18	.20	.37	4.89		
Newton	Delaware		.02			.20	.22				.03				.27		.02				.44	.23						.27	.87		.67	.20	.40	3.86	
Orange ¹	Passaic					.44	.05				.11				.22						.61	.17						1.92			1.03		.62	5.17	
Paterson ²	do.		T.		.03	.25	.05			.11			.06	.15	.15		T.				.86	.09		T.				1.25	.47	T.	.23	.49	.16	.23	4.53
Pemberton	Delaware			T.		.01	.52	.02			.10	.08			.19						.29	.03		.02				1.61	.19		1.65	T.	.69	4.95	
Phillipsburg	do.	.03		T.		.55				.26	T.			T.	.14						.58	T.	T.	.10			1.24	.09	T.	T.	.43	.39	.46	4.27	
Plainfield	Raritan			T.		.40	.07				.18				.28						.72	.07	T.	.02				.46	1.09		1.12	.18	.33	4.92	
Plainsboro	do.					.38					.13				.21						.65		.10					1.05		*	1.55		4.07		
Pleasantville ³	Coast				T.	1.78	.03			.05	.73				.16						.56	.20		T.					.97		2.04	.65	.18	7.35	
Rahway ¹	Rahway				.10	.11	.02				.10			.01	.08						*	.53						.90		.08	1.00		.52	3.45	
Ridgefield	Hackensack		.01		T.	.45	.15				.17			T.	.25																				

Daily Temperatures for December 1945

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	39	43	46	44	46	51	50	59	50	47	33	29	31	40	33	31	26	32	35	29	27	30	28	33	50	49	40	38	41	43	39.3	
	Minimum...	32	29	35	35	35	43	41	36	44	30	25	17	19	27	24	14	18	22	19	19	19	11	11	25	36	32	32	35	36	35	27.4	
Barnegat City†.....	Maximum...	38	39	44	43	47	50	51	54	52	46	34	26	33	35	32	29	24	29	35	25	25	27	30	42	46	40	39	41	43	46	37.8	
	Minimum...	29	27	33	36	38	42	42	37	35	31	21	18	14	25	16	10	15	21	19	19	18	11	10	22	32	30	26	34	36	34	26.0	
Belleplain.....	Maximum...	40	45	45	45	42	53	45	53	57	50	34	32	31	40	35	32	26	32	29	27	26	30	39	46	52	40	37	42	45	43	39.5	
	Minimum...	28	22	21	38	30	36	39	32	25	31	23	10	13	23	25	11	9	1	21	17	1	0	7	1	5	34	23	20	34	36	32	21.1
Belvidere.....	Maximum...	37	32	37	41	33	40	49	54	45	36	33	29	29	33	32	23	21	25	21	27	25	25	23	30	41	43	37	36	34	36	39	33.7
	Minimum...	25	16	25	32	24	30	33	39	25	27	21	14	14	22	23	10	7	6	16	13	5	4	4	5	13	35	31	22	29	31	34	20.5
Boonton /.....	Maximum...	37	40	39	41	37	45	47	53	50	39	30	26	29	32	32	21	21	25	20	24	24	24	24	33	46	45	38	36	36	39	34.5	
	Minimum...	27	19	21	27	23	24	35	39	25	25	24	15	16	18	20	12	10	14	4	3	5	8	3	4	21	33	22	28	20	20	18.5	
Bridgeton.....	Maximum...	38	41	43	43	41	51	47	51	54	45	33	28	31	36	32	25	24	30	26	26	26	26	32	25	29	51	47	40	37	40	42	37.3
	Minimum...	28	24	27	38	29	34	40	32	29	30	24	17	19	24	23	16	10	9	21	17	15	11	9	7	15	36	29	24	34	31	37	23.8
Burlington.....	Maximum...	39	42	40	42	40	44	52	52	54	47	33	31	31	34	33	31	25	28	28	26	26	25	25	33	44	50	40	40	37	42	43	37.3
	Minimum...	23	31	30	38	27	34	38	37	37	31	26	16	18	22	26	15	12	8	18	17	13	15	8	11	15	37	34	25	32	30	38	24.6
Canoe Brook /.....	Maximum...	39	42	38	42	38	44	49	56	50	45	26	22	25	26	31	25	23	24	27	26	25	27	27	30	40	44	41	33	39	39	34.9	
	Minimum...	28	15	22	30	22	26	37	37	22	24	23	13	12	19	15	2	7	1	14	8	6	8	7	9	2	21	32	18	27	16	31	15.7
Cape May*.....	Maximum...	39	43	46	44	46	50	46	50	51	49	34	23	30	38	35	32	28	31	34	27	28	32	24	31	47	43	39	39	41	41	44	38.4
	Minimum...	32	29	36	36	35	42	42	39	40	32	29	20	25	28	31	21	20	23	26	24	22	24	22	15	16	24	38	32	30	35	36	29.5
Charlotteburg.....	Maximum...	35	42	39	39	34	38	45	50	52	52	42	25	29	30	30	29	24	25	22	22	23	26	23	30	45	44	39	36	34	35	39	34.8
	Minimum...	24	14	20	33	17	27	35	36	20	29	21	12	12	18	20	6	6	8	11	10	4	13	4	6	1	36	30	16	29	40	34	18.2
Chatsworth.....	Maximum...	38	44	44	45	44	48	49	55	59	50	34	26	33	33	33	30	24	28	28	25	25	27	25	32	44	52	39	37	39	42	43	37.9
	Minimum...	28	19	28	36	29	36	39	31	23	32	21	13	10	23	23	7	3	7	24	15	5	4	5	4	7	40	30	20	32	30	38	20.9
Clayton.....	Maximum...	39	42	41	43	37	41	54	57	50	40	37	30	31	35	34	28	24	28	25	29	27	27	30	34	43	48	43	40	37	40	40	37.2
	Minimum...	28	19	25	32	26	32	39	37	25	31	23	14	14	21	18	9	9	1	16	13	6	3	6	0	13	37	32	21	31	24	34	20.6
Elizabeth.....	Maximum...	39	41	41	41	37	41	50	55	54	45	35	33	35	37	33	29	25	31	24	32	28	26	29	39	38	45	42	36	36	38	39	37.2
	Minimum...	26	30	26	32	25	31	39	38	35	30	22	14	14	22	23	11	8	5	16	15	9	4	5	5	36	33	32	32	32	34	21.9	
Flemington.....	Maximum...	37	40	41	41	37	43	50	52	52	46	35	27	33	32	31	41	25	32	33	26	25	25	24	31	45	49	40	38	44	43	43	37.5
	Minimum...	26	17	25	34	25	31	37	32	29	31	19	11	14	22	22	12	6	5	18	14	10	11	6	3	10	39	32	25	31	27	37	21.3
Hammononton.....	Maximum...	39	44	45	45	40	41	46	54	57	40	35	31	31	40	35	30	26	29	32	30	18	30	28	33	48	42	40	41	41	43	54	38.6
	Minimum...	26	20	23	25	26	35	34	29	29	29	19	12	12	22	19	14	3	1	18	12	7	8	6	2	16	37	30	20	31	30	36	20.4
Hawthorne.....	Maximum...	36	39	39	42	32	40	51	53	50	42	30	26	30	32	32	22	23	26	23	24	25	25	27	42	47	39	40	45	40	40	35.1	
	Minimum...	28	19	25	32	28	31	39	32	25	29	20	15	16	23	17	11	9	11	17	11	15	9	8	3	9	35	28	28	30	28	30	21.4
Hightstown.....	Maximum...	38	39	41	42	38	43	50	52	53	44	32	28	30	32	31	26	21	26	23	25	25	25	32	44	50	40	37	36	41	42	35.8	
	Minimum...	28	20	26	36	26	31	39	35	29	31	21	13	14	22	21	12	5	1	17	15	11	5	1	8	38	31	25	31	29	37	21.5	
Indian Mills.....	Maximum...	39	42	44	43	38	48	48	55	57	48	32	28	32	35	32	29	23	29	25	26	26	29	26	32	45	51	39	36	39	42	43	37.5
	Minimum...	28	21	21	37	28	33	39	30	27	31	21	15	11	24	24	14	6	2	19	15	13	9	7	3	10	38	30	22	33	31	38	21.8
Jersey City*.....	Maximum...	34	34	38	40	33	40	47	51	48	43	30	25	28	31	30	23	20	24	21	24	24	22	24	24	47	46	39	36	34	40	40	33.5
	Minimum...	28	21	28	28	25	34	37	38	36	28	17	16	18	24	23	10	10	14	18	17	16	16	8	10	16	34	28	28	27	27	34	23.0
Lakewood.....	Maximum...	37	37	43	42	38	46	50	51	58	47	32	26	30	33	31	29	22	27	28	25	25	25	28	45	50	40	37	38	41	43	36.4	
	Minimum...	30	22	25	36	30	36	40	36	27	32	22	15	15	24	26	15	6	1	20	15	11	9	8	1	11	40	33	26	33	27	38	22.8
Lambertville.....	Maximum...	40	43	42	40	37	41	50	51	53	43	32	28	32	32	31	27	23	27	24	28	27	24	27	34	45	47	39	38	36	40	40	36.0
	Minimum...	26	19	26	31	25	31	38	36	25	29	22	14	13	22	23	12	8	5	17	15	11	7	2	4	12	35	30	23	31	29	34	21.1
Layton.....	Maximum...	38	39	38	39	32	37	43	51	49	41	30	26	31	30	33	23	22	26	22	23	24	25	22	32	33	44	38	34	33	36	39	33.3
	Minimum...	23	4	19	32	13	26	36	32	22	23	20	11	21	12	0	3	5	9	12	3	4	2	2	3	2	33	15	30	27	34	16.3	
Little Falls /.....	Maximum...	42	42	40	42	43	43	51	55	51	39	32	28	30	34	45	23	24	28	31	28	26	27	28	38	48	46	44	37	43	39	37.6	
	Minimum...	28	19	25	32	24	28	37	38	25	30	20	15	17	23	22	12	9	12	17	13	4	6	5	1	5	25	33	21	31	20	34	20.4
Long Branch*.....	Maximum...	37	39	44	42	39	44	52	52	59	44	33	27	31	31	31	24	22	27	26	25	25	27	28	52	52	41	38	37	44	43	36.9	
	Minimum...	30	28	27	33	31	40	39	37	33	26	18	15	16	24	19	12	9	8	21	17	14	12	9	8	15	38	28	26	29	28	35	23.4
Long Valley /.....	Maximum...	43	46	47	42	37	42	54	55	49	37	33	27	28	31	30	20	21	25	20	27	26	25	26	35	43	42	38	36	34	36	37	35.2
	Minimum...	19	17	23	33	23	35	36	37	23	27	18	13	9	17	19	3	5	2	13	16	3	1	2	5	3	35	30	20	30	27	33</	

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CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION,
A. E. WHITE
TRENTON, N. J.
VOL. L. ANNUAL SUMMARY, 1945. No. 13.

GENERAL SUMMARY.

New Jersey temperature for 1945 averaged 52.6° or just 0.6° above normal. No records were broken or even approached as to extreme summer heat or winter cold. Sub-zero readings were recorded at some stations in January and December. The hottest weather was in June with maximum temperatures as high as 100° at a few stations. Average annual precipitation, 52.39 inches, was slightly less than in 1938, but with the exception of that year, it was the greatest since 1903. Ten stations in North Jersey had over 60 inches and many had 10 to 15 inches more than their normal amounts. The greatest annual amount was 68.17 inches at Little Falls which was 20.37 inches above normal for that station. The excess was largely due to unusually heavy rainfall in July. The least annual amount was 40.87 inches at Cape May. Annual snowfall was the greatest since 1923.

WEATHER BY MONTHS

JANUARY was the coldest for five years with slightly less than normal precipitation but almost twice the normal snowfall. Several northern stations had over 25 inches and snow cover continued quite deep in that area.

FEBRUARY was cold during the first week, but was marked by unusually warm weather during the last week of the month. Precipitation and snowfall were both near normal.

MARCH was the warmest of record in New Jersey, exceeding the warm March of 1921. The State average temperature was 10° above normal. During the last half of the month, little heating of homes was required in Trenton and vicinity. Temperatures in the upper eighties were registered on the 17th and 29th. By the close of the month, vegetation and tree foliage had reached a stage common for the end of April. It was the driest month of the year. Farm work and planting of truck crops were well advanced at its close. Snowfall averaged only 0.1 of an inch.

APRIL continued warm until the 17th. The period from February 22d to April 17th this year was the most remarkable for warmth of any spring period of similar length in New Jersey since records were begun. During the latter part of April, temperatures were near or below normal and vegetation was slowed by cool, cloudy weather. There was no measurable snowfall and slightly less than normal rainfall.

MAY was the coldest for ten years. Monthly maximum temperatures were about the same as in April but not as high as in March this year. This was the first month since November, 1944 with as much as normal precipitation.

JUNE was unseasonably cool during the first ten days and some heating of residences was required in contrast to the heatless days of March this year. The remainder of the month was warm with monthly maxima of 100° registered at three stations, which were in fact the highest readings for the year 1945 in New Jersey. June temperature ranged from 30° on the 1st to 100° on the 15th and 30th. Precipitation was somewhat above normal.

JULY averaged the coolest since 1929. The month was noted for its unusually heavy rainfall. It was the wettest July since

1897 and the cloudiest summer month of record. The heaviest rains fell in North Jersey where two stations reported over 17 inches. Several storms of cloudburst character occurred, the most intense of which was at Phillipsburg on the 9th when 8.54 inches of rain fell in about three hours. In that storm, four persons were killed when their homes were crushed by the collapse of a retaining wall. Floods in the Passaic and Hackensack rivers caused immense damage. A tornado of moderate intensity struck in Trenton and vicinity on the 2d; damage was not heavy.

AUGUST was sultry with much cloudiness and frequent rains, though the total rainfall was a little less than normal. There was no severe heat wave.

SEPTEMBER was warm and cloudy with no frost even in the cranberry bogs. Thunderstorms were numerous and rainfall about one-fourth greater than normal.

(Continued on bottom of next page.)

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	50.4	100	-2	37.87	.....	.....	.....	.....	.....
1886.....	50.8	98	-10	46.54	.....	.....	.....	.....	.....
1887.....	51.3	102	-6	47.66	.....	.....	.....	.....	.....
1888.....	50.2	99	-12	52.20	.....	.....	.....	.....	.....
1889.....	52.8	95	-3	63.33	.....	.....	.....	.....	.....
1890.....	53.1	101	0	49.34	.....	.....	.....	.....	.....
1891.....	53.2	102	1	47.98	.....	.....	.....	.....	.....
1892.....	51.5	105	-6	42.04	.....	.....	.....	.....	.....
1893.....	50.7	103	-21	47.90	.....	.....	.....	.....	.....
1894.....	53.0	106	-11	47.37	.....	.....	.....	.....	.....
1895.....	51.5	109	-12	37.29	25.7	.....	.....	.....	.....
1896.....	52.1	105	-15	42.51	39.5	.....	.....	.....	.....
1897.....	52.0	102	-6	51.72	25.8	.....	.....	.....	.....
1898.....	53.1	107	-15	52.35	34.3	.....	.....	.....	.....
1899.....	52.1	103	-21	45.84	44.3	107	148	120	97
1900.....	53.8	104	-9	42.71	23.3	108	146	127	92
1901.....	51.3	107	-12	51.80	14.1	116	141	116	108
1902.....	51.9	100	-11	59.44	40.1	124	148	116	101
1903.....	51.7	100	-16	56.25	22.3	116	151	108	106
1904.....	49.2	100	-34	43.78	48.5	113	160	107	99
1905.....	51.2	102	-18	42.06	32.9	109	160	114	91
1906.....	52.7	98	-15	46.38	23.4	121	146	112	107
1907.....	50.3	96	-22	51.65	54.1	128	141	99	125
1908.....	52.6	106	-17	42.58	35.3	103	145	115	106
1909.....	51.9	100	-15	40.86	29.9	114	137	116	112
1910.....	51.8	99	-15	39.73	33.3	114	123	123	119
1911.....	52.6	104	-12	50.36	30.0	129	121	121	123
1912.....	51.3	100	-32	46.61	35.1	115	137	124	105
1913.....	54.0	100	-11	46.99	5.2	111	173	97	96
1914.....	51.2	99	-12	39.23	41.1	107	149	108	108
1915.....	52.4	98	3	47.37	39.4	114	145	115	105
1916.....	51.0	100	-18	38.17	49.6	121	159	100	107
1917.....	49.5	104	-21	40.80	40.4	117	166	96	103
1918.....	51.6	108	-23	37.65	25.3	108	167	96	102
1919.....	52.6	103	-11	52.10	10.9	131	161	80	124
1920.....	51.2	98	-17	51.87	33.4	127	158	94	114
1921.....	54.2	100	-5	38.16	23.0	115	167	90	108
1922.....	52.6	98	-11	41.57	30.8	119	169	90	106
1923.....	51.9	106	-14	40.38	39.8	112	172	92	101
1924.....	50.6	102	-6	44.17	24.3	102	177	96	93
1925.....	52.2	103	-20	42.15	26.8	111	165	97	108
1926.....	50.0	105	-11	44.41	32.2	122	157	95	113
1927.....	52.0	99	-12	49.68	13.7	125	156	90	119
1928.....	52.0	99	-15	46.22	21.5	125	158	97	111
1929.....	52.3	102	-9	42.96	16.0	118	162	87	116
1930.....	52.7	105	-14	35.28	15.6	99	172	89	104
1931.....	54.4	102	-9	37.07	8.6	106	169	82	114
1932.....	53.4	100	-10	46.80	16.3	111	169	95	112
1933.....	52.9	105	-18	49.80	21.5	121	158	88	119
1934.....	51.6	103	-26	45.43	32.7	117	169	85	111
1935.....	51.6	101	-31	42.32	36.2	118	155	89	121
1936.....	52.3	110	-17	47.57	22.1	119	163	87	116
1937.....	53.0	103	0	47.61	11.1	124	161	84	120
1938.....	54.3	100	-19	52.52	23.1	133	151	88	126
1939.....	53.0	99	-10	42.95	18.4	113	152	92	121
1940.....	50.1	104	-13	48.43	28.1	121	144	92	130
1941.....	53.0	105	-7	37.23	32.6	93	192	82	91
1942.....	52.6	105	-23	50.52	16.8	108	158	90	117
1943.....	52.0	102	-25	39.02	17.7	102	145	102	118
1944.....	52.5	104	-14	46.78	27.7	104	152	98	116
1945.....	52.6	100	-11	52.39	37.6	133	145	87	133
Period.....	52.0	110	-34	45.91	28.4	116	155	100	110

Climatological Data for the Year 1945

Stations	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)						Number days with .01 or more	Sky			Prevailing direction of wind		
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month		Total snowfall (unmelted)	Number clear days	Number partly cloudy days		Number cloudy days	
Atlantic City	Atlantic	8	72	54.4	97	June 30	4	Jan. 25	72	46.27	10.22	July	0.99	Mar.	16.5	126	91	103	171	s.	
Barnegat City	Ocean	36	6	52.9	93	June 16	2	Jan. 25	6	40.88	7.79	Nov.	1.44	Mar.	101	101	103	171	171	s.	
Belleplain	Cape May	49	51	55.2	97	June 14†			51	45.90	7.63	Nov.	2.35	Apr.	137	137	167	56	142	w.	
Belmar	Monmouth	19							4	61.90	6.61	Nov.	2.35	Apr.	137	137	167	56	142	w.	
Belvidere	Warren	289	53	51.9	98	June 15	-2	Jan. 25	53	53.09	12.12	July	2.41	Oct.	54.5	137	167	56	142	w.	
Berlin, 1 mile W.	Camden	70							4	53.09	12.80	July	2.15	Apr.	120	143	177	33	155	uw.	
Boonton	Morris	280	37	50.0	90	July 1	-3	Jan. 25	55	56.37	9.49	July	2.38	Oct.	16.5	120	190	56	119	nw.	
Bridgeton	Cumberland	30	57	55.2	97	June 30†	7	Dec. 24	62	47.32	10.14	July	2.22	Mar.	29.1	87	132	168	73	124	w.
Brooklawn	Camden	30							4	46.66	10.12	July	1.20	Mar.	132	145	158	88	119	w.	
Burlington	Burlington	12	33	55.3	99	June 30	0	Jan. 25	59	47.39	8.85	July	2.62	Sept.	8.9	129	83	121	161	s.	
Canoe Brook	Essex	180	15		97	June 30			15	66.59	13.71	July	2.62	Oct.	72.0	147	110	51	204	w.	
Cape May	Cape May	17	20	54.5	94	June 30	8	Jan. 25	57	40.87	7.99	July	0.47	Mar.	98	130	136	99	175	uw.	
Charlotteburg	Passaic	760	53	50.3	94	June 15	-5	Jan. 12†	53	62.77	9.72	July	2.07	Oct.	61.8	131	178	46	141	nw.	
Chatham	Morris	185							41	66.10	12.18	July	2.43	Mar.	41.9	148	178	46	141	nw.	
Chatsworth	Burlington	90	5	53.4	98	June 15†	-7	Dec. 18	5	47.26	8.04	July	1.92	Mar.	34.0	145	134	89	142	s.	
Clayton	Gloucester	120	32	54.2	96	June 14†	1	Jan. 25	32	49.28*	8.62	July	1.71	Jan.	40.0	149	131	59	175	uw.	
Clinton	Raritan	300							2	55.71	11.22	July	1.39	Oct.	61.8	131	178	46	141	nw.	
Culvers Lake	Sussex	760							44	56.16	10.94	July	1.94	Oct.	61.8	131	178	46	141	nw.	
Elizabeth	Union	34	61	53.5	100	June 30	-1	Jan. 25	66	63.35	8.37	July	2.92	Mar.	41.9	148	178	46	141	nw.	
Flemington, 2 mi. NE	Hunterdon	140	48	53.9	99	July 1	-2	Jan. 25	59	51.71	3.38	July	1.93	Oct.	40.0	140	183	68	114	w.	
Freehold	Monmouth	191	14	52.4	98	June 30	-4	Jan. 25	41	52.02	11.49	July	2.39	Mar.	32.4	137	126	143	96	uw.	
Hammononton	Atlantic	95	13		100	June 15	0	Jan. 25	39	48.59	9.19	July	1.42	Mar.	122	114	111	140	sw.		
Hightstown	Mercer	110	49	52.6	98	June 30†	-3	Jan. 25	52	50.16	9.94	July	2.39	Jan.	34.1	147	136	132	97	sw.	
Indian Mills, 2 mi. W.	Burlington	100	55	53.6	100	June 30	-2	Dec. 18	56	48.43	11.15	July	1.82	Sept.	28.0	142	126	143	96	uw.	
Jersey City	Hudson	81	47	51.7	96	June 30	0	Jan. 25	47	44.97	7.53	July	2.04	Jan.	35.8	137	171	75	119	nw.	
Lakewood	Ocean	54	41	53.3	97	June 15†	-1	Dec. 18	41	53.61	9.11	July	2.33	Oct.	35.5	139	93	129	143	sw.	
Lambertville	Hunterdon	75	58	52.6	97	June 30	-2	Jan. 25	58	49.71	7.95	July	2.11	Feb.	79.2	147	132	46	187	s.	
Layton-3 mi. NW	Sussex	480	44	48.9	93	July 1	-8	Feb. 6	44	57.90	10.51	July	2.26	Mar.	49.4	149	138	132	105	nw.	
Little Falls	Passaic	157	31	52.1	97	July 1	0	Jan. 25	42	68.17	16.52	July	2.45	Oct.	34.0	145	134	89	142	s.	
Long Branch	Monmouth	34	37	52.8	98	June 30	-1	Jan. 25	37	53.61	8.25	July	2.14	Mar.	34.0	145	134	89	142	s.	
Long Valley	Morris	660	15	49.1	95	June 30	-10	Jan. 26	15	64.67	12.16	July	2.05	Oct.	57.0	127	166	113	86	sw.	
Marlton, 1 mi. W.	Burlington	90							4	44.28	7.84	July	1.85	Mar.	30.3	133	156	95	114	sw.	
Mays Landing	Atlantic	50							1	42.45	7.44	Dec.	1.71	Mar.	16.0	141	146	109	110	nw.	
Millville	Cumberland	60							5	45.72	7.00	Aug.	1.87	Mar.	121	146	109	110	110	nw.	
Moorestown	Burlington	62	82	52.9	97	June 16†	1	Jan. 25	82	44.69	7.02	July	1.73	Mar.	29.7	135	126	143	96	uw.	
Morris Plains, 1 mi. W.	Morris	500							4	57.43	8.94	July	1.99	Jan.	53.0	130	188	53	124	sw.	
Newark	Essex	10	46	53.1	99	June 15	0	Jan. 25	91	48.56	6.15	July	2.62	Aug.	42.2	147	91	113	161	sw.	
New Brunswick	Middlesex	86	88	53.1	95	June 30	-3	Jan. 25	91	51.95	10.07	July	2.11	Mar.	35.0	137	171	75	119	nw.	
New Milford	Bergen	12							27	52.58	9.17	July	2.33	Oct.	33.1	181	120	76	169	uw.	
Newton	Sussex	769	62	49.8	95	June 25	-7	Jan. 25	62	60.96	12.43	July	2.51	Oct.	83.1	181	120	76	169	uw.	
Orange	Essex	140							5	59.62	9.11	July	2.48	Mar.	33.1	181	120	76	169	uw.	
Paterson	Passaic	95	75	52.1	97	June 15†	-3	Jan. 25	74	57.19	12.64	July	2.08	Oct.	44.7	137	135	111	119	w.	
Pemberton	Burlington	55	16	55.1	98	June 30	1	Jan. 25	16	48.74	11.71	July	2.17	Oct.	24.5	150	164	81	120	w.	
Phillipsburg	Warren	182	54	51.1	91	June 15†	-3	Jan. 25	62	61.52	17.84	July	2.13	Oct.	47.9	142	154	95	116	sw.	
Plainfield	Union	120	54	52.6	98	June 30	-1	Jan. 25	57	57.52	8.85	Sept.	2.44	Mar.	41.9	140	100	126	139	sw.	
Plainsboro	Middlesex	110							4	49.07	8.39	July	1.79	Jan.	113	100	126	139	139	sw.	
Pleasantville	Atlantic	8	22	53.4	99	June 30	0	Dec. 18	47	46.86	7.98	July	1.37	Mar.	137	129	90	146	s.		
Rahway	Union	20							6	45.19	7.46	July	2.33	Jan.	30.4	126	135	103	129	nw.	
Ridgefield	Bergen	80	28	52.1	99	July 1	-1	Jan. 25	28	56.68	6.95	July	2.36	Oct.	60.3	135	133	103	129	nw.	
Runyon	Middlesex	18	21	50.7	96	Sept. 7	-11	Dec. 18	22	58.68	13.21	July	2.58	Mar.	123	123	123	123	123	w.	
Rutherford	Monmouth	51	1		96	July 1			1	57.63	8.37	July	2.65	Oct.	53.8	156	79	82	204	uw.	
Sandy Hook	Bergen	15	47	53.1	97	June 30	2	Jan. 25	47	49.37	7.44	July	1.97	Apr.	136	136	136	136	136	w.	
Somerville, 2 mi. N	Somerset	385	59						62	44.88*	5.25	Nov.	2.27	Oct.	126	115	125	125	125	w.	
Sussex	Sussex	450	47	51.5	97	June 14†	-8	Jan. 20†	50	59.92	12.77	July	1.96	Oct.	72.9	157	114	65	186	w.	
Toms River	Ocean	33							24	45.43	7.35	July	1.95	Oct.	22.8	126	126	126	126	w.	
Trenton	Mercer	56	73	54.0	98	June 30†	0	Jan. 25	73	43.07	8.97	July	1.76	Mar.	29.0	143	88	109	168	nw.	
Trenton No. 2	Mercer	105	15	53.8	98	June 30	0	Jan. 25	15	52.59	9.99	July	2.12	Mar.	36.9	135	135	135	135	sw.	
Tuckerton	Ocean	23	47	55.0	100	June 30	2	Jan. 25	52	40.94	7.14	Nov.	1.34	Mar.	15.0	122	185	71	109	nw.	
Vineland	Cumberland	110							65	47.29	6.93	July	2.13	Jan.	123	167	108	90	165	sw.	
Westfield	Union	145							6	52.56	7.96	Sept.	2.07	Mar.	36.0	115	168	57	140	sw.	
Woodcliff Lake	Bergen	103							27	61.01	14.06	July	2.43	Oct.	137	137	137	137	137	sw.	
New York, N. Y.		10	75	53.8	95	June 30	0	Jan. 25	75	45.74	5.70	May	1.99	Oct.	39.2	137	111	112	142	nw.	
Philadelphia, Pa.		10	75	55.6	99	June 30	3	Jan. 25	75	46.96	8.86	July	1.61	Mar.	33.6	134	100	100	165	sw.	
For the State				52.6	100	June 15†	-11	Dec. 18		52.39	17.84	July	0.47	Mar.	37.6	133	145	87	133	sw.	

Figures and letters following station indicate distance in miles and direction of station from the city or town. † Also on other dates. * Partly interpolated.

(Continued from front page)

OCTOBER was the driest month this year except March. Temperature was about normal and conditions were favorable for harvesting crops and fall seeding.

NOVEMBER was mild during the first half but the last half was cold. It was the wettest month of the year except July, precipitation being 170 percent of normal. A snowstorm of importance occurred on the 29-30th.

DECEMBER with a State average of 29.0° was the coldest since 1935. Many interior stations had monthly minima below zero in both North and South Jersey. A heavy snowfall on the 19th covered the entire State and due to continued cold weather, this remained on the ground to provide the first white Christmas throughout New Jersey for ten years. Snowfall was the heaviest of record except in 1904.

Monthly and Annual Precipitation for the Year 1945, with Departures from the Normal.

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Atlantic City.....	2.83	-0.66	3.64	+0.28	0.99	-2.61	2.79	-0.20	3.09	+0.04	2.52	-0.52	10.22	+6.29	4.08	-0.41	2.28	-0.37	2.69	-0.51	3.28	+0.46	7.86	+3.92	16.27	+5.71
Barneget City.....	2.61	.....	3.16	.....	1.44	.....	2.56	.....	1.66	.....	2.83	.....	6.12	.....	3.40	.....	2.93	.....	2.18	.....	7.79	.....	4.20	.....	40.88	.....
Bass River.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.91	.....	1.88	.....	6.24	.....	.....	.....	.....	.....
Belleplain.....	.....	.....	.....	.....	.....	.....	3.31	-0.29	2.19	-1.13	4.91	+1.72	6.66	+2.47	7.63	+3.15	3.96	+0.33	3.48	+0.12	4.97	+2.22	7.40	+3.86	.....	.....
Belmar.....	2.78	.....	3.04	.....	2.79	.....	2.35	.....	4.71	.....	3.40	.....	5.28	.....	3.66	.....	2.81	.....	2.51	.....	6.61	.....	5.96	.....	15.90	.....
Belvidere.....	4.25	+0.58	3.89	+0.39	3.02	-0.80	4.23	+0.52	5.14	+1.46	6.29	+1.97	12.12	+7.24	5.92	+1.10	5.44	+1.66	2.41	-1.22	4.93	+1.55	4.26	+0.52	61.90	+14.97
Berlin.....	2.65	.....	3.40	.....	2.20	.....	2.15	.....	3.48	.....	3.85	.....	12.80	.....	5.34	.....	2.85	.....	3.41	.....	5.72	.....	5.24	.....	53.09	.....
Boonton.....	3.72	+0.39	2.73	-0.56	2.67	-0.89	3.62	-0.10	6.92	+3.13	4.20	+0.40	9.49	+5.15	6.56	+2.11	4.86	+0.74	2.38	-1.16	5.97	+2.37	3.25	-0.03	56.37	+11.55
Bridgeton.....	2.60	-0.92	2.38	-1.10	2.22	-1.84	3.25	-0.15	3.12	-0.38	3.28	-0.38	10.14	+5.81	4.97	+0.33	3.56	+0.06	2.52	-0.85	3.45	+0.63	5.83	+2.37	47.32	+3.58
Brooklawn.....	2.59	.....	3.21	.....	1.20	.....	2.53	.....	3.95	.....	3.94	.....	10.12	.....	4.30	.....	3.27	.....	1.83	.....	5.43	.....	4.29	.....	36.66	.....
Burlington.....	2.76	-0.67	3.69	+0.43	3.21	-0.58	2.93	-0.81	4.61	+0.81	2.98	-1.04	8.85	+4.35	4.65	-0.72	2.62	-1.17	3.84	+0.36	3.01	-0.16	4.25	+0.45	47.39	+1.25
Canoe Brook.....	3.64	-0.15	3.30	+0.52	2.73	-1.87	4.23	+0.34	6.11	+2.60	5.22	+0.88	13.71	+9.45	5.92	+0.66	7.62	+2.76	2.62	-1.02	6.83	+3.00	4.66	+1.60	66.59	+18.77
Cantou.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cape May.....	2.63	-0.77	2.16	-1.02	0.47	-3.37	2.53	-0.57	1.97	-0.91	4.27	+1.20	7.99	+4.46	2.86	-1.68	2.83	-0.26	2.76	-0.28	2.98	+0.34	7.42	+3.85	40.87	+0.99
Charlotteburg.....	4.65	+1.00	3.95	+0.31	2.20	-1.86	4.22	+0.08	8.74	+4.82	4.46	+0.10	9.72	+5.06	5.54	+0.91	5.54	+1.05	2.07	-2.17	7.18	+3.40	4.50	+0.59	62.77	+13.29
Chatham.....	3.26	-0.74	3.39	-0.14	2.43	-1.66	4.28	+0.12	6.06	+2.34	6.62	+2.44	12.18	+7.47	6.55	+1.67	7.56	+3.08	2.52	-1.28	6.38	+2.90	4.87	+1.01	66.10	+17.21
Chatsworth.....	2.45	.....	3.31	.....	1.92	.....	2.34	.....	3.73	.....	3.75	.....	8.04	.....	4.37	.....	2.55	.....	2.51	.....	6.25	.....	6.04	.....	47.26	.....
Clayton.....	1.71	-0.71	3.67	+0.29	2.66	-0.96	3.74	+0.14	3.68	+0.49	3.76	+0.04	8.62	+4.06	4.89	-0.25	2.76	-0.73	2.82	-0.48	5.67	+2.81	5.30	+1.77	49.28	+5.47
Clinton.....	3.33	.....	3.03	.....	2.69	.....	4.08	.....	5.12	.....	4.16	.....	11.22	.....	5.58	.....	4.92	.....	1.39	.....	5.61	.....	4.58	.....	55.71	.....
Culvers Lake.....	4.22	+1.11	3.13	+0.33	1.98	-1.33	3.63	+0.14	6.35	+2.94	5.84	+1.10	10.94	+6.47	5.08	+0.55	4.75	+0.57	1.94	-1.72	4.71	+1.52	3.59	+0.43	56.16	+12.11
Dover.....	3.86	-0.24	3.23	-0.51	3.23	-0.75	4.25	+0.48	7.60	+3.81	6.10	+2.37	8.37	+3.42	3.30	-1.07	6.88	+2.83	3.89	+0.18	7.85	+4.61	5.52	+1.84	63.35	+16.86
Elizabeth.....	6.27	+2.81	4.62	+0.80	2.92	-1.15	3.83	+0.15	6.10	+2.37	3.80	+0.04	8.37	+3.42	3.30	-1.07	6.88	+2.83	3.89	+0.18	7.85	+4.61	5.52	+1.84	63.35	+16.86
Essex Falls.....	3.51	-0.07	2.84	-0.37	3.11	-0.65	3.69	+0.07	4.83	+1.16	4.49	+0.55	8.38	+3.29	2.55	.....	6.57	.....	1.72	.....	7.63	.....	5.11	.....	51.71	+6.18
Flemington.....	2.06	.....	3.23	.....	2.21	.....	2.35	.....	2.92	.....	4.69	.....	14.60	.....	5.44	+0.70	4.04	+0.25	1.93	-1.51	4.77	+1.56	4.23	+0.71	52.02	+3.94
Fort Dix, A. A. B.....	2.62	-1.34	2.98	-0.81	2.39	-2.10	2.66	-1.02	4.80	+1.20	2.73	-1.08	11.49	+6.80	3.44	-1.05	4.55	+0.17	2.65	-1.09	7.48	+3.55	4.23	+0.71	52.02	+3.94
Freehold.....	1.74	-2.08	3.53	+0.23	1.42	-2.55	4.41	+0.59	2.12	-1.73	3.92	+0.07	9.19	+4.61	4.56	-0.13	3.15	-0.41	2.47	-1.12	4.13	+0.96	7.95	+4.59	48.59	+3.03
Hammononton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hawthorne.....	2.39	-1.02	2.67	-0.60	2.77	-1.00	2.42	-1.40	3.72	0.00	4.56	+0.56	9.94	+5.10	3.65	-0.99	5.52	+1.71	2.72	-0.92	5.45	+2.19	4.35	+1.06	50.16	+1.69
Hightstown.....	2.70	-1.17	3.57	+0.20	2.65	-1.36	2.51	-1.10	2.88	-0.37	3.73	-0.49	11.15	+6.65	4.02	-1.72	1.82	-2.15	2.04	-1.45	5.41	+2.29	5.95	+2.17	48.43	+1.50
Indian Mills.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jersey City.....	2.04	-1.50	2.56	-0.95	2.96	-1.01	2.38	-1.44	4.98	+1.63	4.18	+0.49	7.53	+3.25	2.18	-2.26	5.23	+1.51	2.50	-0.98	4.88	+1.72	3.55	+0.11	44.97	+0.57
Lakewood.....	2.97	-0.88	3.70	+0.20	2.73	-1.23	2.98	-0.88	5.62	+2.29	3.38	-0.71	9.11	+4.64	2.79	-2.12	4.58	+1.09	2.33	-1.66	7.24	+4.14	6.18	+2.50	53.61	+7.08
Lambertville.....	3.69	+0.14	2.11	-1.12	1.50	-2.23	4.18	+0.45	4.62	+0.72	5.10	-1.02	7.95	+3.20	3.79	-0.84	4.95	+1.28	2.27	-1.18	4.54	+1.32	5.01	+1.47	39.71	+4.18
Layton.....	3.33	+0.39	3.21	+0.51	2.26	-1.10	3.57	+0.04	7.13	+3.83	6.40	+2.13	10.51	+6.08	5.13	+0.96	5.85	+1.94	2.58	-1.02	5.41	+2.26	2.52	-0.70	57.90	+15.32
Little Falls.....	3.60	-0.11	3.54	+0.15	2.94	-0.83	3.85	-0.37	6.33	+2.52	5.10	+0.93	16.62	+12.10	5.12	+0.33	7.04	+2.82	2.45	-1.71	6.60	+3.13	5.08	+1.41	68.17	+20.37
Long Branch.....	3.76	-0.36	3.10	-0.49	2.14	-1.98	2.70	-1.52	4.71	+1.47	6.94	+3.04	8.25	+3.66	4.10	-0.71	3.09	-0.70	2.86	-0.70	6.60	+3.21	5.36	+1.73	53.61	+6.65
Long Valley.....	3.87	+0.67	2.71	-0.03	2.75	-1.17	4.94	+1.29	7.01	+3.31	6.18	+1.63	12.16	+6.70	5.80	+0.77	5.61	+1.16	2.05	-1.39	6.72	+2.24	4.87	+1.63	64.67	+16.81
Manville.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marlton.....	2.50	.....	3.44	.....	1.85	.....	2.53	.....	3.73	.....	4.37	.....	7.84	.....	3.93	.....	2.57	.....	2.34	.....	4.17	.....	5.01	.....	44.28	.....
Mays Landing.....	2.29	.....	2.81	.....	1.71	.....	2.65	.....	2.12	.....	2.87	.....	4.67	.....	4.64	.....	3.33	.....	2.53	.....	5.19	.....	7.44	.....	42.45	.....
Midland Park.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Millville.....	2.41	.....	2.88	.....	1.87	.....	2.89	.....	2.69	.....	4.75	.....	5.03	.....	4.63	.....	5.80	.....	2.48	.....	5.58	.....	5.17	.....	.....	.....
Moorestown.....	3.11	-0.31	3.40	+0.11	1.73	-1.95	2.84	-0.57	4.36	+0.58	3.54	-0.23	7.02	+2.48	3.99	-0.92	3.12	-0.63	2.73	-0.68	4.89	+1.65	3.96	+0.53	41.69	+0.06
Morris Plains.....	1.99	.....	3.29	.....	2.47	.....	5.29	.....	5.77	.....	3.97	.....	8.94	.....	6.72	.....									

Monthly and Annual Mean Temperatures for the Year 1945, with Departures from the Normal

STATIONS.	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic City.....	29.2	-3.3	35.4	+1.8	49.2	+10.6	52.9	+5.1	58.6	+0.5	69.8	+3.2	74.6	+2.5	72.6	+0.1	70.2	+3.4	57.6	+0.7	49.6	+4.0	33.4	-3.0	54.4	+2.1
Barnegat City.....	27.2	.....	33.5	.....	45.8	.....	51.8	.....	56.6	.....	67.8	.....	73.1	.....	71.9	.....	69.4	.....	56.8	.....	49.0	.....	31.9	.....	52.9	.....
Belleplain.....	22.3	-5.7	30.6	+2.4	49.4	+10.9	55.3	+5.6	58.6	-2.2	69.4	0.0	74.0	+0.3	71.6	+0.3	68.6	+3.5	52.7	-2.2	43.0	+2.0	27.1	-4.0	51.9	+0.9
Boonton.....	20.9	-7.0	28.6	+0.6	47.2	+11.3	52.7	+4.7	56.4	-2.4	68.8	+1.3	71.4	-0.8	67.6	-2.9	65.5	+2.0	51.8	-0.4	43.4	+1.6	26.5	-3.8	50.0	+0.3
Bridgeton.....	28.1	-5.7	35.1	+1.1	52.8	+10.4	57.6	+5.4	61.7	-1.7	72.6	+0.5	75.4	-1.1	72.8	-1.9	71.4	+3.1	56.0	-0.9	48.1	+2.4	30.6	-5.6	55.2	+0.5
Burlington.....	26.9	-6.3	34.1	+0.9	53.4	+11.1	58.3	+6.4	62.6	-0.2	74.3	+2.9	75.2	-0.7	73.2	-1.1	71.6	+3.9	56.6	-0.6	46.8	+1.1	31.0	-4.4	55.3	+1.1
Canoe Brook.....	20.0	-9.4	26.9	-1.7	45.9	+8.9	51.4	+4.5	55.1	-3.6	.....	.....	.....	.....	.....	.....	67.6	+3.8	52.6	+0.2	43.4	+1.7	25.3	-6.4	.....	.....
Cape May.....	29.1	-5.0	34.8	+0.7	48.3	+7.5	53.5	+5.1	58.8	+0.2	69.7	+2.0	73.8	+0.4	72.6	-0.8	70.6	+1.6	58.4	-1.2	49.9	+2.5	34.0	-4.0	54.5	+0.8
Charlotteburg.....	21.7	-5.8	30.6	+3.6	47.4	+11.1	52.6	+5.9	56.9	-0.8	66.6	+1.0	69.7	-0.7	68.5	-0.2	67.0	+4.7	51.4	0.0	44.4	+3.7	26.5	-4.1	50.3	+1.6
Chatsworth.....	26.0	.....	33.4	.....	49.8	.....	55.4	.....	59.3	.....	70.0	.....	74.4	.....	71.2	.....	70.2	.....	54.4	.....	47.6	.....	29.4	.....	53.4	.....
Clayton.....	26.8	-5.1	34.6	+3.0	52.1	+10.3	56.2	+5.3	60.0	-1.6	71.0	+1.4	74.4	-0.8	71.0	-2.3	70.2	+3.2	55.6	-0.8	48.5	+1.1	30.0	-4.6	54.2	+1.0
Dover.....	.....	.....	.....	.....	47.6	+11.6	52.7	+5.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elizabeth.....	25.2	-5.7	32.8	+1.6	50.8	+11.4	55.8	+4.9	59.1	-2.7	70.9	+0.3	74.2	-1.1	72.5	-0.9	69.8	+2.9	54.4	-0.8	47.1	+3.2	28.9	-4.9	53.5	+0.7
Flemington, 2 mi. NE.....	25.1	-5.4	32.8	+2.5	51.4	+10.8	56.6	+6.4	60.0	-1.4	71.0	+1.1	75.0	+0.1	73.0	+0.2	70.3	+3.6	55.0	-0.6	46.7	+3.1	29.6	-3.4	53.9	+1.4
Fort Dix, A. A. B.....	24.2	.....	32.5	.....	49.9	.....	54.8	.....	58.7	.....	70.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Freehold.....	21.4	-8.3	32.0	+0.9	49.8	+10.8	53.8	+3.6	59.0	-3.0	69.2	-1.3	72.7	-2.0	70.4	-2.6	68.6	+2.5	53.4	-1.9	46.4	+1.3	29.4	-5.6	52.4	-0.5
Hammonton.....	25.2	-8.9	33.0	-1.5	52.4	+10.9	.....	.....	.....	.....	71.9	+0.5	74.7	-1.2	72.2	-2.0	70.9	+3.9	56.1	-0.3	49.2	+6.8	28.5	-3.7	.....	.....
Hawthorne.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hightstown.....	24.3	-6.2	32.0	+1.0	50.7	+10.1	54.6	+4.4	58.5	-2.4	69.5	+0.3	73.2	-1.0	70.9	-1.3	68.9	+2.4	53.6	-1.3	47.0	+3.2	28.6	-4.8	52.6	+0.3
Indian Mills.....	26.0	-6.4	33.9	+1.2	51.2	+10.1	55.9	+5.9	59.8	-2.0	70.2	+0.2	73.8	-0.8	71.2	-1.4	69.7	+3.3	54.3	-1.0	47.4	+3.6	29.6	-5.0	53.6	+0.6
Jersey City.....	23.2	-9.4	31.6	-0.1	48.6	+8.7	53.2	+3.1	57.0	-4.7	68.4	-2.6	72.2	-3.7	71.4	-2.6	67.7	+0.1	53.4	-3.0	45.2	+3.3	28.2	-6.8	51.7	-1.7
Lakewood.....	26.6	-5.6	33.9	+2.4	50.6	+10.3	55.0	+4.9	59.5	-0.9	69.9	+1.1	73.5	0.0	71.0	-0.5	69.4	+4.2	54.2	-0.2	46.8	+3.0	29.6	-4.9	53.3	+1.2
Lambertville.....	24.4	-6.4	32.6	+2.0	50.3	+11.1	54.9	+4.9	58.7	-2.3	69.8	+0.3	73.8	-0.3	71.0	-1.3	68.5	+2.7	52.6	-1.8	45.4	+2.2	28.6	-4.8	52.6	+0.6
Layton, 3 mi. NW.....	19.1	-6.5	27.8	+2.5	46.4	+10.6	52.0	+5.3	55.0	-2.7	66.0	-0.1	70.4	-0.8	68.8	+0.1	65.9	+3.4	50.2	-0.7	40.6	+1.1	24.8	-3.6	48.9	+0.7
Little Falls.....	23.2	-6.3	31.0	+0.7	48.8	+9.9	54.8	+5.4	58.4	-1.9	69.2	0.0	73.5	-0.5	69.0	-3.1	69.0	+3.6	53.6	-0.5	45.2	+2.1	29.0	-3.8	52.1	+0.5
Long Branch.....	24.9	-7.1	33.0	+1.7	49.4	+10.1	53.4	+5.2	57.8	-0.7	69.2	+1.5	73.4	+0.5	71.2	-0.3	68.9	+3.0	55.0	-0.2	46.8	+2.4	30.2	-4.5	52.8	+1.0
Long Valley.....	20.8	-6.9	28.5	+1.0	45.9	+10.8	50.8	+3.0	54.2	-5.0	65.3	-2.6	69.1	-2.6	67.8	-1.7	66.0	+3.3	51.0	-0.7	42.8	+1.9	26.8	-3.4	49.1	-0.2
Moorestown.....	24.8	-6.4	33.0	+1.2	50.1	+10.2	55.2	+4.8	58.6	-2.7	70.6	+0.4	73.7	-1.1	71.0	-1.7	68.5	+2.3	53.6	-1.3	46.1	+3.0	29.8	-4.2	52.9	+0.4
Morris Plains.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newark.....	24.0	-5.9	32.9	+3.3	50.6	+11.2	55.2	+5.2	58.7	-2.4	70.8	+1.2	74.1	-0.6	72.4	-0.6	69.6	+3.2	54.2	-1.4	46.0	+2.2	29.0	-4.7	53.1	+0.9
New Brunswick.....	25.2	-5.4	32.6	+1.5	50.4	+11.2	55.0	+5.4	59.6	-0.9	69.9	+0.6	73.6	-0.5	71.8	-0.4	69.2	+3.4	54.2	-0.6	47.2	+3.5	28.9	-4.6	53.1	+1.1
Newton.....	18.8	-7.8	28.0	+0.8	48.4	+12.4	53.2	+5.4	56.1	-3.4	66.9	-1.0	70.2	-2.4	68.9	-1.5	68.0	+4.2	51.6	-1.1	42.4	+1.5	25.3	-5.1	49.8	+0.2
Paterson.....	23.4	-6.8	31.2	+0.5	48.3	+11.2	54.2	+3.6	57.4	-4.1	69.6	-0.5	73.8	-0.8	71.8	-0.4	68.5	+2.2	54.0	-1.1	44.9	+1.1	28.2	-5.3	52.1	0.0
Pemberton.....	27.5	-7.0	34.8	+1.2	52.5	+11.0	57.2	+6.3	61.2	-1.8	72.2	+0.6	75.6	-0.3	72.6	-1.8	71.2	+3.5	56.2	+0.5	49.0	+2.8	31.0	-5.2	55.1	+0.8
Phillipsburg.....	22.6	-6.6	30.2	+1.3	48.7	+10.2	53.8	+4.4	58.2	-2.8	68.6	-0.9	73.0	-1.0	70.5	-1.3	67.2	+2.0	51.2	-2.3	42.8	+0.9	26.7	-5.1	51.1	-0.1
Plainfield.....	24.4	-5.9	32.0	+2.3	50.1	+11.0	54.9	+5.5	57.8	-2.4	69.4	+0.5	73.6	-0.3	71.4	-0.4	69.0	+3.4	54.6	-0.4	45.3	+2.4	29.2	-3.9	52.6	+1.0
Pleasantville.....	28.0	-5.6	33.4	-0.2	49.0	+8.6	54.0	+5.4	58.6	-0.4	69.9	+1.4	71.1	-2.2	71.4	-0.8	70.2	+4.3	55.6	+0.8	48.2	+3.2	31.9	-3.6	53.4	+0.9
Ridgefield.....	22.8	-6.7	31.4	+1.6	49.4	+10.9	54.7	+5.3	57.8	-2.1	69.6	+0.9	73.6	-0.1	71.4	-0.4	68.8	+3.7	53.2	-0.6	44.6	+1.6	27.9	-4.3	52.1	+0.9
Runyon.....	21.5	-9.2	30.4	-0.4	47.4	+8.0	52.4	+4.3	54.4	-5.1	67.6	-1.0	73.2	+0.2	71.4	-0.3	69.1	+4.8	51.2	-1.6	43.9	+1.1	25.4	-7.0	50.7	-0.5
Rutherford.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sandy Hook.....	25.0	-6.3	32.6	+0.5	47.4	+8.1	53.3	+5.0	57.6	-0.8	68.9	+1.1	73.7	+0.2	73.0	+0.5	70.5	+3.0	56.2	-0.5	48.0	+2.2	30.9	-4.3	54.1	+0.7
Somerville, 2 mi. N.....	22.0	-7.5	31.4	+1.5	51.1	+12.3	56.4	+7.0	59.3	-1.2	70.0	+0.9	73.4	-0.6	72.2	-0.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sussex.....	21.0	-6.2	30.8	+3.9	49.9	+13.1	55.4	+7.0	58.8	-0.9	68.9	+1.5	73.8	+1.5	71.2	+1.2	67.4	+3.1	52.1	-0.8	43.2	+1.8	25.6	-4.6	51.5	+1.7
Trenton.....	25.0	-5.5	34.1	+3.4	51.8	+12.7	56.0	+6.2	60.2	-0.9	71.6	+2.1	74.6	+0.1	72.6	-0.4	69.4	+2.5	55.2	-0.4	47.0	+2.6	30.3	-4.1	54.0	+1.5
Trenton No 2.....	25.4	-6.5	33.6	+1.9	51.6	+11.3	56.1	+5.5	60.1	-2.7	71.6	+0.3	74.6	-0.9	72.2	-1.3	69.3	+2.5	54.4	-0.5	46.6	+1.8	30.1	-3.8	53.8	+0.6
Tuckerton.....	29.4	-4.6	35.4	+2.1	50.6	+9.4	55.0	+5.6	60.0	+0.1	70.6	+1.7	75.5	+1.3	72.3	-0.4	70.4	+3.7	57.4	+0.9	50.8	+5.4	32.0	-4.2	55.0	+1.8
New York, N. Y.....	25.4	-5.5	34.4	+3.1	51.0	+13.3	54.8	+5.4	58.9	-1.7	70.6	+1.8	73.8	0.0	72.8	-0.3	69.7	+2.9	56.2	-0.1	47.4	+3.2	30.9	-4.1	53.8	+1.5
Philadelphia, Pa.....	26.8	-5.8	36.2	+2.3	53.6	+12.8	57.1	+5.0	61.2	-1.7	73.0	+1.6	76.0	-0.2	74.1	-0.7	70.9	+2.9	57.2	-0.6	48.6	+2.9	32.0	-4.3	55.6	+1.2
For The State.....	24.4	-6.5	32.2	+1.6	49.2	+10.0	54.6	+4.9	58.4	-2.0	69.9	+0.9	73.2	-0.6	71.2	-0.8	69.0	+3.2	54.2	-0.6	46.1	+2.4	29.0	-4.8	52.6	+0.6

* Monthly mean interpolated.

KILLING FROSTS

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
Atlantic City	Mar. 8	Nov. 24	Little Falls	Apr. 23	Oct. 4
Barnegat City	Mar. 22*	Nov. 21*	Long Branch	Apr. 6	Oct. 4
Belleplain		Oct. 4	Long Valley	May 12	Oct. 4
Belvidere	Apr. 23	Oct. 4	Moorestown	Apr. 23	Oct. 4
Boonton	Apr. 23*	Oct. 4*	Newark	Mar. 14*	Nov. 21*
Bridgeton	Apr. 6*	Oct. 4*	New Brunswick	Apr. 23*	Oct. 4*
Burlington	Mar. 14*	Oct. 4*	Newton	Apr. 23*	Oct. 4*
Canoe Brook	May 3*	Oct. 4	Paterson	Apr. 23*	Oct. 4*
Cape May	Mar. 8*	Nov. 24	Pemberton	Apr. 23	Oct. 4
Charlotteburg	May 12*	Oct. 4*			
Chatsworth	Apr. 23	Oct. 4	Phillipsburg	Apr. 23	Oct. 4
Clayton	Apr. 23	Oct. 4	Plainfield	Apr. 23	Oct. 4
			Pleasantville	Apr. 23	Oct. 4
Dover	Apr. 20		Ridgefield	Apr. 23	Oct. 4
Elizabeth	Apr. 23*	Oct. 4	Runyon	May 12*	Oct. 4
Flemington	Apr. 23	Oct. 4	Rutherford	Apr. 23	Oct. 4
Freehold	Apr. 23	Oct. 4	Sandy Hook	Mar. 12*	Nov. 21*
Hammonton	Apr. 23*	Oct. 4	Somerville	Apr. 23	Oct. 4
Hightstown	Apr. 23	Oct. 4	Sussex	Apr. 23	Oct. 4
Indian Mills	Apr. 23	Oct. 4	Trenton	Apr. 23	Oct. 4
Jersey City	Mar. 22*	Nov. 20*	Trenton No 2	Apr. 23	Oct. 4
Lakewood	Apr. 23	Oct. 4	Tuckerton	Apr. 23*	Oct. 4
Lambertville	Apr. 23	Oct. 4			
Layton	May 25	Oct. 4	For the State	May 25	Oct. 4

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

MAR 2 1946

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. LI

JANUARY 1946.

No. 1

GENERAL SUMMARY.

This was the warmest January since 1937. The first two weeks were comparatively mild with unseasonably warm weather from the 5th to 10th, during which period monthly maxima in the sixties were registered generally. The remainder of the month was mostly colder than normal though the last two days were quite mild. The month averaged 3.7° warmer than December of the current winter. Only three stations reported sub-zero temperatures.

This was one of the three driest Januaries of record in New Jersey. Only in 1896 and 1916 was the month drier. Precipitation was only 48 percent of normal, the monthly total of 1.76 inches being the least for any month since July 1944. It was greatest along and near the seacoast and least in the Red Sandstone Plain area. Snowfall for the State as a whole, was the least for any January since 1937. Oddly enough, the most snow fell in the extreme southern part of the State. Atlantic City had 5.1, Mays Landing 6.5 and Bridgeton 4.0 inches. This was due to the fact that a moderately heavy snowstorm occurred in that area on the 27th when little or no snow fell elsewhere in the State.

Sunshine was near normal. The strongest winds occurred on the 19th but only one of the reporting stations, Long Branch, registered winds of gale force.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 40 stations, was 32.7°, which was 1.9° above normal. The highest temperature was 68° at three stations on the 6th, and the lowest, -5°, at two stations on the 23d and 24th. The highest monthly average temperature was 36.8° at Burlington, and the lowest, 28.0° at Layton. The temperature departure from the normal for the year 1946, for the State, was +1.8°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 60 stations, was 1.76 inches, which was 1.87 inches below normal. The average total snowfall at 28 selected stations was 2.3 inches, which was 5.0 inches below normal. The greatest monthly precipitation was 3.10 inches at Sussex, and the least, 0.46 inch at Layton. The greatest amount of precipitation in any 24 consecutive hours was 1.15 inches at Toms River on the 20-21st. The average for the Highlands was 1.64 inches; for the Red Sandstone Plain, 1.46 inches; for the Southern Interior, 1.94 inches; and for the Sea Coast, 2.16 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -1.78 inches; Red Sandstone Plain, -2.18 inches; Southern Interior, -2.66 inches; Sea Coast, -1.60 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 5, 6, 7, 8, 9, 12, 21, 24, 30, 31.

SLEET: 11, 12, 20, 21, 24, 25, 27.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.55	3	29.53	31	16.4	34	e.	21	74	65	70	46	916
Long Branch.....	30.56	20	29.48	31	12.3	51	nw.	19	75	60	68	46	979
Newark.....	30.61	20	29.42	31	.....	36	w.	19	71	57	66	.....	1012
Trenton.....	30.56	20	29.46	31	9.7	26	nw.	19	71	57	64	54	970

COMPARATIVE DATA FOR JANUARY.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	30.8	67	0	4.08	.....	.....	.....	.....
1886.....	27.3	60	-10	4.47	.....	.....	.....	.....
1887.....	25.3	67	-6	3.86	.....	10	.....	.....
1888.....	25.3	59	-12	4.77	.....	9	.....	.....
1889.....	36.2	60	8	5.68	.....	9	.....	.....
1890.....	41.3	78	12	2.29	.....	10	.....	.....
1891.....	34.2	59	10	6.57	.....	10	10	11
1892.....	29.9	67	-6	5.13	.....	10	10	9
1893.....	21.6	54	-21	3.04	.....	9	10	10
1894.....	34.2	61	-4	2.34	.....	11	10	8
1895.....	28.1	64	-4	4.66	9.7	11	10	10
1896.....	28.6	61	-7	1.66	.....	5	12	10
1897.....	29.0	64	-6	2.80	11.5	9	11	8
1898.....	32.6	64	-10	4.20	9.7	11	9	11
1899.....	30.1	60	-21	4.01	6.0	11	13	8
1900.....	32.4	64	-5	3.85	2.6	10	11	11
1901.....	30.4	63	-6	2.52	5.4	9	11	11
1902.....	28.4	58	-5	3.25	8.6	10	12	9
1903.....	30.4	57	-5	3.90	6.4	10	10	10
1904.....	23.3	58	-34	3.09	15.6	10	13	7
1905.....	27.0	60	-16	4.18	21.3	9	12	9
1906.....	36.5	74	-5	2.85	5.1	11	11	9
1907.....	31.8	71	-19	3.50	10.3	14	8	9
1908.....	31.8	60	-6	3.74	9.9	9	12	11
1909.....	33.2	69	-12	3.18	7.5	12	8	9
1910.....	29.7	54	-15	5.04	13.3	15	8	15
1911.....	33.5	63	0	3.44	3.6	14	10	7
1912.....	22.3	58	-32	2.82	13.4	13	8	12
1913.....	39.5	68	10	3.58	0.8	14	11	7
1914.....	31.9	73	-12	3.85	2.4	9	9	8
1915.....	33.5	61	3	6.55	3.4	12	11	6
1916.....	35.1	74	-2	1.50	1.9	11	11	8
1917.....	31.4	58	0	3.26	5.4	13	10	8
1918.....	20.3	56	-16	4.14	18.9	11	12	8
1919.....	34.1	62	-7	3.51	1.3	8	14	7
1920.....	23.6	53	-10	2.60	6.6	11	11	7
1921.....	33.0	63	-5	2.63	2.7	9	13	8
1922.....	27.6	57	-11	2.62	11.1	8	15	6
1923.....	30.1	66	-14	5.22	16.6	12	9	7
1924.....	32.2	65	-6	4.48	1.4	8	15	8
1925.....	27.4	59	-20	4.43	22.8	10	12	6
1926.....	30.8	63	-9	2.61	2.4	9	11	8
1927.....	29.2	70	-12	2.22	7.9	11	11	7
1928.....	32.5	65	-15	2.26	8.3	8	15	8
1929.....	30.7	67	-4	3.49	1.6	10	13	7
1930.....	31.7	72	-14	2.92	5.9	10	10	6
1931.....	31.6	64	-5	2.16	1.6	5	16	7
1932.....	42.4	76	18	4.50	1.5	13	8	6
1933.....	38.5	67	2	2.39	1.2	8	13	7
1934.....	33.6	64	-1	2.59	0.2	8	11	8
1935.....	28.2	65	-26	4.00	15.8	11	13	5
1936.....	27.2	59	-15	6.34	9.1	13	13	7
1937.....	40.3	72	9	6.30	2.2	16	6	6
1938.....	31.0	68	-19	3.64	4.0	12	10	7
1939.....	30.9	65	-10	3.98	10.2	11	11	6
1940.....	22.4	62	-13	1.95	5.6	7	16	6
1941.....	29.4	58	-7	3.47	8.8	10	12	6
1942.....	28.9	66	-23	2.98	5.5	7	13	7
1943.....	30.3	63	-2	2.97	7.3	10	10	8
1944.....	32.5	69	-10	3.50	4.3	7	11	9
1945.....	24.3	60	-10	3.04	13.0	9	13	7
1946.....	32.7	68	-5	1.76	2.3	8	10	8
Period.....	30.8	78	-34	3.63	7.3	10	11	8

Climatological Data for January 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	73	35.5	+3.0	50	7	15	23	2.77	-0.72	0.52	24†	5.1	11	4	7	20	w.	U. S. Weather Bureau.
Barnegat City	Ocean	28	7	34.0		51	6†	12	20	1.96		0.40	31		7				sw.	U. S. Coast Guard.
Belleplain	Cape May	49	52	35.8	+2.3	65	7	3	28	2.33	-1.20	0.41	30-31		9	8	7	16	sw.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	5							2.36		0.53	24		10					City Water Dept.
Belvidere	Warren	289	54	30.5	+2.6	57	6†	4	23	1.78	-1.89	0.45	21	2.0	9	14	5	12		Miss C. S. Hixson.
Berlin, 1 mile W.	Camden	70	5							1.27		0.28	31		9	12	7	12	w.	Samuel H. McCulley.
Boonton	Morris	280	56†	29.4	+1.6	56	6†	4	20†	1.16	-2.17	0.39	30-31		9	12	2	17	nw.	John Kline.
Bridgeton	Cumberland	30	63	34.7	+1.0	67	6	6	28	2.16	-1.36	0.38	12	4.0	10	15	6	10	nw.	Bennett K. Matlack.
Brooklawn	Camden	30	5							1.31		0.35	9-10	1.8	5					C. D. Scott.
Burlington	Burlington	12	60†	36.8	+3.9	67	6	9	20†	3.03	-0.40	0.65	20-21	3.0	7	12	11		w.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	16							1.90	-1.89	0.62	30-31		11	8	11	12	w.	N. J. Dept. of Conservation.
Cape May	Cape May	17	58	36.2	+1.4	56	7†	11	20	1.97	-1.43	0.65	31	2.1	11	5	12	14	s.	Naval Air Station.
Charlotteburg††	Passaic	760	54	30.0	+2.7	57	7	-1	20	1.51	-2.14	0.38	30	2.0	7	6	2	23	sw.	Newark Water Dept.
Chatham	Morris	185	42							1.93	-2.07	0.62	30-31	4.5	10					Edward P. Molitor.
Chatsworth	Burlington	90	6	34.4		68	6	5	28	1.87		0.33	9		8	11	10	10	w.	Alfred L. Stevenson.
Clayton	Gloucester	120	33																	Harry P. Campbell.
Clinton	Hunterdon	300	3							1.23		0.40	9	1.0	7	12	6	13	nw.	L. W. Klockner.
Culvers Lake††	Sussex	760	45							1.69	-1.42	0.90	7	3.0	6					L. S. Depue.
Elizabeth	Union	34	67	32.8	+1.9	64	6	6	20	1.92	-1.51	0.49	30	2.4	10	12	6	13	nw.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	140	60†	33.0	+2.6	63	7	5	20	1.35	-2.23	0.36	30	2.0	8	16	5	10	w.	Hiram E. Deats.
Freehold	Monmouth	194	42†	33.4	+1.5	66	6	7	20†	2.07	-1.89	0.40	9†	1.7	10	12	10	9	w.	Moreau Plant Co.
Hammononton	Atlantic	95	40†	33.9	+0.6	67	10	1	23	1.60	-2.22	0.44	21	2.0	8	6	4	21	sw.	J. G. Wilson.
Hightstown	Mercer	110	53	33.1	+2.8	66	6	4	23	1.70	-1.71	0.40	9-10	2.5	8	10	11	10	nw.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington	100	57	34.0	+1.8	67	6	6	23	1.72	-2.15	0.37	20-21	1.7	11	7	13	11	nw.	Edward Entwistle.
Jersey City	Hudson	81	48	31.1	-1.2	59	6†	4	20	1.56	-1.98	0.80	30		8	12	7	12	sw.	J. C. Water Dept.
Lakewood	Ocean	54	42	34.4	+2.3	66	6	10	20†	2.42	-1.43	0.65	20-21	0.5	10	5	11	15	nw.	R. W. Holman.
Lambertville	Hunterdon	75	59	32.6	+2.3	63	6	5	23	1.31	-2.24	0.45	21	2.0	7	6	4	21	sw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex	480	45	28.0	+2.7	58	7	-5	23	0.46	-2.48	0.30	20-21	2.6	5	10	5	16	sw.	A. M. Depue.
Little Falls	Passaic	157	43	31.8	+2.6	61	6	5	20	1.58	-2.13	0.49	30-31	2.5	10	12	8	11	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	38	34.0	+2.3	66	6†	9	20	2.27	-1.85	0.47	24	0.9	10	10	7	14	w.	Storn Warn. Display Sta.
Long Valley	Morris	660	16	30.2	+3.0	56	7	4	20	1.69	-1.51	0.45	30	2.0	8	15	10	6	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	5							1.67		0.50	20-21	2.0	9	12	6	13	w.	David Griscom.
Mays Landing	Atlantic	50	2							2.55		0.55	30-31	6.5	11	12	4	15	sw.	Elmer Earle.
Millville	Cumberland	60	6							2.20		0.42	31	4.5	10	11	7	13		Paul Ritchie.
Moorestown	Burlington	62	83	33.4	+2.3	67	6	8	23	1.40	-2.02	0.38	20-21	2.7	9	10	3	18	nw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	490	5	30.8		58	7	4	20	1.57		0.37	30	2.0	7	12	6	13		James C. Long.
Newark	Essex	10	92	32.4	+2.6	62	7	5	20	1.68	-2.12	0.63	30-31	3.5	9	6	7	18	w.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	92	33.2	+2.7	66	6	6	20	1.48	-2.15	0.29	9†	2.1	8	9	7	15	sw.	N. J. Experiment Station.
New Milford††	Bergen	12	28							1.50	-1.95	0.40	30		7					Hackensack Water Co.
Newton	Sussex	769	63							1.61	-1.71	0.70	7	2.2	6	10	6	15		Irving J. Kern.
Orange††	Essex	140	6							1.85		0.45	30-31		7					County Engineer.
Paterson	Passaic	95	75	31.8	+1.8	59	6†	4	20	1.28	-2.45	0.38	31	2.2	9	10	12	9	w.	J. W. Cook.
Pemberton	Burlington	55	17	35.6	+2.1	68	6	10	20	1.52	-1.92	0.43	9-10	1.0	9	13	7	11	sw.	Charles A. Doehlert.
Phillipsburg	Warren	182	63†	29.7	+1.1	59	7	10	21†	1.38	-2.15	0.44	9	2.5	9	15	5	11		Town Engineer.
Plainfield	Union	120	58	32.3	+2.1	63	6	5	20	1.59	-2.25	0.47	30	2.5	10	8	10	13	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	5							1.20		0.56	30-31	1.5	5					Walker-Gordon Lab.
Pleasantville††	Atlantic	8	48	34.6	+1.6	63	7	-4	28	3.06	-0.30	0.52	26-27		10	3	15	13	nw.	N. J. Dept. of Conservation.
Rahway	Union	20	7							1.55		0.44	30	1.5	10	9	11	11	nw.	Louis Fontenelli.
Ridgefield	Bergen	80	29	31.2	+2.0	59	6	4	20	1.78	-1.75	0.64	30	2.0	8	9	7	15	nw.	George P. Kirsten.
Runyon††	Middlesex	18	23	29.0	-0.7	67	7	-5	24	1.82	-1.78	0.63	30		8	9	10	12	w.	N. J. Dept. of Conservation.
Rutherford	Bergen	51	2	32.0		68	6	4	20	1.82		0.68	30		10					Harold Scott.
Sandy Hook	Monmouth	15	48	33.4	+2.1	60	6	9	20	1.61	-2.35	0.48	30-31	2.0	7	4	10	17	w.	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	63							0.92	-2.67	0.46	30-31		6	7	14	10	w.	Joseph Starkman.
Sussex	Sussex	450	51	29.0	+2.0	51	7	2	20†	3.10	-0.18	1.00	6-7	1.3	8	11	5	15	w.	Marshall Hunt.
Toms River	Ocean	33	25							2.54	-1.17	1.15	29-31		10					Robt. F. Snyder.
Treuton	Mercer	56	74	33.6	+3.1	65	6†	8	20	1.37	-1.94	0.38	30-31	2.8	9	6	9	16	sw.	U. S. Weather Bureau.
Trenton No. 2	do.	105	16	33.6	+1.7	65	6	8	20	1.55	-2.28	0.41	20-21	2.9	9					Edward H. Ristow.
Tuckerton	Ocean	23	53	34.2	+0.3	61	6	9	20	2.44	-1.15	0.56	30-31	5.0	11	13	8	10	w.	John H. Brown.
Vineland	Cumberland	110	66							1.09	-2.78	0.40	27		9	4	15	12	ne.	Robert Jones.
Westfield	Union	145	7							1.36		0.46	30-31	1.5	7	13	3	15	nw.	Town Engineer.
Woodcliff Lake††	Bergen	103	28							1.32	-2.22	0.36	30		7					Hackensack Water Co.
New York, N. Y.		10	76	34.0	+3.1	62	6	5	20	1.79	-1.87	0.64	30-31	2.5	8	7	8	16	nw.	U. S. Weather Bureau.
Philadelphia, Pa.		10	76	35.2	+2.6	65	6	11	20	1.51	-1.79	0.44	20-21	1.7	10	5	12	14	nw.	U. S. Weather Bureau
For the State				32.7	+1.9	68	6	-5	23†	1.76	-1.87	1.15	20-21	2.3	8	10	8	13	w.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. ‡ Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Day of month

§§ Incomplete.

Daily Temperatures for January 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	36	30	40	42	47	51	59	54	50	56	42	54	44	37	41	29	36	41	39	37	42	33	30	40	42	52	31	37	46	45	54	42.5
	Minimum...	25	20	25	34	38	44	44	42	41	39	33	39	28	22	19	15	25	24	19	15	33	16	15	25	31	31	18	21	30	36	38	28.5
Barnegat City†.....	Maximum...	45	30	38	42	47	51	51	51	47	54	42	51	43	34	40	30	35	39	39	40	42	32	28	44	40	46	28	36	42	45	50	41.4
	Minimum...	25	20	19	27	36	41	42	40	40	37	32	38	26	22	17	14	24	25	15	12	30	18	14	20	35	27	16	16	23	33	36	26.5
Belleplain.....	Maximum...	37	30	55	55	50	64	65	61	49	62	52	54	50	38	50	41	32	42	39	29	42	36	34	45	47	50	42	39	44	59	52	46.6
	Minimum...	26	17	12	30	38	49	53	42	39	42	24	34	30	15	26	10	20	15	25	12	18	17	6	10	22	32	15	3	21	26	45	25.0
Belvidere.....	Maximum...	36	31	36	37	47	57	57	51	41	51	44	46	40	32	36	27	33	35	40	19	33	32	30	36	40	40	31	37	41	40	42	38.6
	Minimum...	26	17	12	19	27	39	48	37	32	40	30	32	19	20	11	14	19	18	6	15	8	4	6	29	30	13	13	25	25	32	22.4	
Boonton/.....	Maximum...	31	28	35	43	50	56	49	50	49	43	46	35	31	39	26	33	38	23	28	35	25	32	33	41	40	27	36	38	37	49	38.1	
	Minimum...	30	18	10	14	22	26	42	38	34	31	30	30	32	19	20	11	12	18	22	4	4	24	6	9	16	31	14	10	15	24	25	20.7
Bridgeton.....	Maximum...	40	30	40	42	57	67	62	60	49	56	43	52	44	33	40	28	33	42	39	27	40	32	32	47	41	49	37	38	43	45	51	43.2
	Minimum...	27	19	18	25	32	46	50	43	40	40	30	34	32	20	23	14	20	21	25	13	24	16	12	15	29	33	18	6	22	29	35	26.2
Burlington.....	Maximum...	40	35	39	41	55	67	65	65	59	50	47	50	46	46	40	34	35	40	42	26	34	34	30	35	40	42	38	36	43	48	54	43.7
	Minimum...	29	27	32	32	43	33	62	45	45	45	39	45	30	22	31	12	25	30	25	9	20	18	9	10	29	35	25	21	22	35	40	29.8
Canoe Brook /.....	Maximum...	29	18	8	14	23	29	44	37	31	35	26	33	32	15	21	10	11	11	22	5	7	24	2	5	16	32	15	6	19	19	28	20.2
	Minimum...	35	29	38	40	46	49	56	55	56	58	43	50	45	38	39	31	35	41	42	39	43	34	31	42	41	48	32	35	40	45	54	42.3
Cape May*.....	Maximum...	26	23	25	33	37	42	41	42	41	42	34	37	30	26	21	15	28	28	31	11	33	20	16	24	30	37	30	23	32	35	40	30.2
	Minimum...	37	30	34	45	55	54	57	54	42	49	45	46	43	49	42	29	30	34	33	28	33	34	33	34	41	41	38	37	37	34	48	40.2
Charlotteburg.....	Maximum...	26	15	2	13	28	37	52	36	30	34	30	31	21	19	18	8	6	11	17	1	13	18	6	1	26	26	11	8	26	17	31	19.9
	Minimum...	40	31	39	43	60	68	65	64	50	56	50	51	48	38	40	30	44	43	25	39	35	36	42	42	48	39	40	43	45	53	44.7	
Chatsworth.....	Maximum...	25	18	11	15	25	45	54	47	40	45	23	35	30	16	19	10	15	9	25	10	20	19	7	8	28	35	15	5	24	21	45	24.0
	Minimum...	37	33	38	42	53	64	61	54	45	56	43	49	45	34	39	32	28	41	36	21	35	35	34	36	42	41	32	37	44	42	52	41.3
Clayton.....	Maximum...	28	18	15	35	26	33	53	43	37	43	27	34	29	15	22	11	18	15	19	6	18	21	7	12	28	32	15	11	23	24	37	24.4
	Minimum...	38	35	39	42	52	62	63	58	48	55	46	51	43	36	39	39	41	40	30	22	36	35	36	37	42	40	86	39	44	39	49	42.3
Elizabeth.....	Maximum...	26	19	15	19	26	32	52	40	35	41	29	33	30	19	20	11	15	17	21	5	17	19	7	9	29	33	15	12	26	24	37	23.6
	Minimum...	47	31	39	44	56	66	64	53	46	54	44	50	43	35	39	27	28	40	39	21	36	34	34	37	40	41	34	38	41	48	52	42.0
Flemington.....	Maximum...	25	18	13	23	31	43	57	41	38	44	27	35	29	19	24	10	14	13	21	7	20	16	7	11	28	33	15	13	26	29	42	24.9
	Minimum...	34	30	40	44	54	62	64	60	58	67	44	41	38	31	41	34	38	40	31	29	39	29	34	32	41	38	34	34	46	45	65	42.2
Freehold.....	Maximum...	22	21	22	31	38	43	54	43	37	35	34	36	23	14	20	9	14	21	16	9	20	14	1	10	28	32	22	18	29	34	45	25.6
	Minimum...	38	31	39	40	55	66	63	58	46	52	47	50	44	34	40	34	29	38	40	23	35	34	33	37	39	41	35	37	41	45	53	41.8
Hightstown.....	Maximum...	26	18	17	23	30	37	57	43	37	43	27	34	29	14	22	11	14	16	22	7	17	17	4	7	28	32	15	14	26	25	38	24.4
	Minimum...	38	29	39	43	59	67	63	61	48	56	44	51	45	35	40	33	31	39	39	24	37	33	35	42	41	47	35	38	43	48	53	43.1
Indian Mills.....	Maximum...	26	18	14	18	28	48	57	44	40	44	25	35	30	16	22	10	16	14	24	20	21	16	6	8	29	35	17	10	24	24	46	25.0
	Minimum...	33	29	34	40	46	59	59	52	44	51	41	45	39	30	38	22	24	36	34	21	32	32	29	30	40	38	27	34	40	40	48	37.6
Jersey City*.....	Maximum...	21	19	21	28	33	43	52	39	38	36	32	37	24	20	14	12	19	20	10	4	21	16	13	18	27	19	14	18	29	32	34	24.6
	Minimum...	38	30	39	42	57	66	65	59	45	55	44	50	44	34	40	34	30	38	38	28	37	34	34	39	39	44	36	39	42	45	52	42.5
Lakewood.....	Maximum...	29	20	16	22	28	44	53	35	39	44	27	37	30	20	27	13	18	15	23	10	28	19	10	11	31	36	17	15	28	23	42	26.2
	Minimum...	38	29	39	42	54	63	59	55	45	50	42	50	40	36	40	32	39	39	41	21	34	33	40	42	41	34	40	42	44	50	41.5	
Lambertville.....	Maximum...	25	18	15	19	26	33	53	40	36	36	26	33	27	20	20	10	15	17	19	6	18	15	5	25	28	32	15	12	25	36	23.8	
	Minimum...	38	28	33	40	49	52	58	48	36	50	41	42	40	36	39	28	33	37	36	16	33	33	30	34	40	38	29	37	37	28	46	37.5
Layton.....	Maximum...	24	13	2	13	25	37	47	33	33	35	31	32	24	14	18	9	4	11	15	1	13	19	5	2	26	22	7	3	24	18	24	18.4
	Minimum...	33	30	38	42	55	61	60	49	52	51	43	48	35	35	40	28	32	38	25	33	36	26	34	38	43	42	30	38	44	41	51	40.3
Little Falls/.....	Maximum...	29	18	12	19	26	33	45	39	35	35	32	33	32	19	24	12	14	15	21	5	12	25	7	10	25	35	12	25	23	31	23.2	
	Minimum...	34	31	40	44	59	66	66	55	55	54	45	49	44	35	40	24	30	40	37	35	37	34	32	36	41	43	29	40	41	49	54	42.5
Long Branch*.....	Maximum...	24	19	18	24	32	46	53	40	39	38	29	39	26	19	17	15	20	20	14	9	33	15	12	15	28	24	16	15	27	29	37	25.5
	Minimum...	33	34	35	39	50	55	56	52	49	57	42	45	35	31	37	30	35	40	33	28	35	32	27	37	46	39	36	40	49	40	47	40.1
Long Valley/.....	Maximum...	26	17	8	13	22	34	44	38	35	34	27	30	29	16	16	10	12	13	22	4	8	21	5	5	13	30	12	8	18	28	35	20.4
	Minimum...	35	28	38	41	56	67	63	54	52	51	40	49	45	34	40	27	34	39	39	25	34	33	32	39	40	43	28	37	41	47	52	41.4
Moorestown*.....	Maximum...	24	20	19	22	28	52	54	42	39	38	30	34	25	22	18	13	19	21	16	9	26	14	8	9	30	27	17	16	26	28	38	25.3
	Minimum...	38	30	36	43	50	55	58	57	45	51	49	46																				

51.05
NJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION

A. E. WHITE.

TRENTON UNIVERSITY OF ILLINOIS

VOL. LI

FEBRUARY 1946.

No. 2

GENERAL SUMMARY.

Temperature conditions during February this year were about the same as in January preceding. They were also much the same as in February 1944 and 1945. All of these months were somewhat warmer than normal. Mild weather prevailed this month from the 6th to 14th and again on the 17th. Also, on the 27th, a warm wave sent temperatures in the southwest quarter of the State into the seventies. There were few days without freezing temperature, but only four stations reported sub-zero readings. Of the current winter season (December to February), December, 1945 was much the coldest month.

Precipitation was only 62 percent of normal. The principal storm occurred on the 19th to 20th, when a moderately heavy snow fell over most of the State followed immediately by rain which melted a large part of it. This was the second consecutive dry month and precipitation since January 1, 1946 has been only slightly more than half of normal. It has been well distributed over the State, however. Sunshine percentage was high in February. Strong winds occurred on the 14th and 15th, but were not sufficient to cause much damage. With dry soil and favorable weather, considerable plowing was done in South Jersey.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 42 stations, was 32.3°, which was 1.6° above normal. The highest temperature was 73° at two stations on the 27th, and the lowest, -9°, at Layton on the 22d. The highest monthly average temperature was 37.2° at Burlington, and the lowest, 27.4° at Layton. The temperature departure from the normal for the year 1946, to date, for the State, is +1.7°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 62 stations, was 2.16 inches, which was 1.31 inches below normal. The average total snowfall at 27 selected stations was 6.4 inches, which was 2.4 inches below normal. The greatest monthly precipitation was 2.98 inches at Belvidere, and the least, 1.34 inches at New Brunswick. The greatest amount of precipitation in any 24 consecutive hours was 1.51 inches at Ridgefield on the 19-20th. The average for the Highlands was 2.43 inches; for the Red Sandstone Plain, 2.03 inches; for the Southern Interior, 2.18 inches; and for the Sea Coast, 2.39 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -2.55 inches; Red Sandstone Plain, -3.57 inches; Southern Interior, -2.89 inches; Sea Coast, -2.74 inches.

DATES OF MISCELLANEOUS PHENOMENA.

THUNDERSTORMS: 14.

HEAVY FOG: 6, 9, 10, 13, 14, 27.

SLEET: 5, 6, 9, 10, 13, 15, 19, 20, 22, 23, 24, 27, 28.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.59	4	29.28	20	17.9	49	s.	14	72	59	66	55	805
Long Branch.....	30.61	4	29.20	14	15.4	52	w.	15	68	58	62	65	899
Newark.....	30.61	4	29.30	14	.....	43	wnw	15	67	52	60	.....	954
Trenton.....	30.62	4	29.32	14	11.0	34	nw.	15	66	50	57	64	898

COMPARATIVE DATA FOR FEBRUARY.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	23.9	54	-2	3.93	.....	.....	.....	.....
1886.....	28.9	64	-10	5.42	.....	.....	.....	.....
1887.....	33.9	69	6	5.24	.....	13	.....	.....
1888.....	30.6	60	-5	3.53	.....	8	.....	.....
1889.....	27.7	53	-3	2.49	.....	8	.....	.....
1890.....	39.9	76	14	4.17	.....	10	.....	.....
1891.....	38.0	71	1	5.11	.....	14	.....	.....
1892.....	33.6	58	7	1.63	.....	.....	7	13
1893.....	30.1	63	-1	5.73	.....	11	7	13
1894.....	29.7	62	-11	4.42	.....	11	9	11
1895.....	23.6	57	-12	1.28	11.6	13	9	6
1896.....	32.1	62	-12	5.77	6.7	12	9	11
1897.....	32.5	59	-6	3.61	8.0	8	10	10
1898.....	32.7	65	-15	3.48	2.0	9	12	9
1899.....	25.8	60	-17	6.06	31.3	15	10	12
1900.....	31.0	69	-6	5.30	9.6	10	9	10
1901.....	25.4	52	-6	0.94	4.9	4	15	4
1902.....	27.4	62	-7	6.24	16.5	9	12	10
1903.....	33.7	70	-16	4.87	6.7	10	12	8
1904.....	24.8	65	-16	2.45	5.6	8	13	8
1905.....	23.4	53	-18	2.53	7.3	7	14	7
1906.....	30.9	64	-12	2.58	5.4	7	14	7
1907.....	23.6	55	-22	2.67	20.8	8	14	7
1908.....	28.1	65	-17	4.79	11.9	9	10	9
1909.....	37.8	72	-2	4.96	2.3	12	6	12
1910.....	30.5	69	-11	3.08	6.2	10	10	9
1911.....	30.9	67	-12	2.78	11.2	11	8	13
1912.....	27.7	61	-14	2.49	2.8	5	11	6
1913.....	30.6	70	-5	2.49	3.5	7	16	6
1914.....	25.9	67	-12	2.85	15.1	9	12	9
1915.....	35.7	75	-7	5.37	3.5	8	11	6
1916.....	28.1	63	-18	4.21	11.4	11	10	13
1917.....	28.1	62	-19	1.95	8.3	11	10	9
1918.....	29.0	67	-23	2.08	2.6	7	12	8
1919.....	33.6	65	4	3.39	1.2	10	15	4
1920.....	27.9	54	-17	4.20	20.0	11	11	10
1921.....	34.0	71	-5	3.81	13.6	10	10	8
1922.....	33.6	73	-10	2.94	8.5	10	10	10
1923.....	26.1	56	-12	2.58	13.8	12	10	8
1924.....	28.9	62	-3	4.10	11.9	9	13	5
1925.....	37.3	72	-1	2.23	0.7	7	12	6
1926.....	29.4	57	-11	4.54	21.2	11	9	14
1927.....	36.1	66	4	3.12	5.1	11	10	8
1928.....	32.1	63	-6	4.05	4.4	10	12	7
1929.....	31.6	63	-9	4.06	9.2	8	13	7
1930.....	35.6	80	-10	2.80	4.2	9	13	7
1931.....	33.3	62	-9	2.18	3.0	8	14	5
1932.....	35.9	69	4	2.16	2.2	9	11	6
1933.....	33.5	67	-12	3.33	10.4	10	12	6
1934.....	18.6	54	-26	2.77	22.7	8	15	6
1935.....	30.1	64	-31	2.80	6.8	9	12	7
1936.....	24.4	66	-17	3.10	9.6	10	13	5
1937.....	34.0	65	4	2.30	3.8	8	11	7
1938.....	35.5	70	6	2.31	1.1	10	9	6
1939.....	36.3	74	1	5.55	2.0	11	11	6
1940.....	31.9	65	-1	3.03	12.2	11	12	6
1941.....	29.4	53	-5	2.47	8.8	6	16	5
1942.....	29.7	63	-5	2.69	1.2	6	14	6
1943.....	32.9	71	-25	2.01	3.8	8	14	6
1944.....	32.3	65	-7	2.35	7.0	9	10	7
1945.....	32.2	60	-8	3.16	7.9	11	10	7
1946.....	32.3	73	-9	2.16	6.4	9	11	6
Period.....	30.7	80	-31	3.47	8.8	9	11	7

Climatological Data for February 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	73	36.2	+2.6	52	27	12	4	1.97	-1.39	0.58	14	3.7	12	10	6	12	w.	U. S. Weather Bureau.
Barnegat City	Ocean	36	7	34.0		56	17	14	4	1.78		0.87	19		8					U. S. Coast Guard.
Belleplain	Cape May	49	52	35.4	+2.7	70	27	7	4	1.91	-1.43	0.43	19-20	4.0	11					Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	5							2.29		0.67	19		8					City Water Dept.
Belvidere	Warren	289	54	30.1	+1.7	53	14	3	22	2.98	-0.52	1.18	19-20	10.2	11	13	4	11		Miss C. S. Hixson.
Berlin, 1 mile W.	Camden	70	5							1.87		1.10	19-20		5	13	6	9	nw.	Samuel H. McCulley.
Boonton	Morris	280	56	28.8	+0.6	63	14	1	22	2.00	-1.29	1.19	19-20		9	10	4	14	nw.	John Kline.
Bridgeton	Cumberland	30	63	36.0	+2.0	73	27	13	4	2.50	-0.98	0.66	19-20	9.8	8	13	5	10	nw.	Bennett K. Matlack.
Brooklawn	Camden	30	5							2.21		1.10	19		6					C. D. Scott.
Burlington	Burlington	12	60	37.2	+3.9	70	18	10	4	2.47	-0.79	1.30	19-20	5.0	9	20	1	7	w.	Public Service E. & G. Co.
Canoe Brook†	Essex	180	16					-2	22	2.50	-0.28	1.29	19-20		11	12	4	12	nw.	N. J. Dept. of Conservation.
Cape May	Cape May	17	58	36.6	+1.8	53	17	16	4	2.53	-0.65	0.66	14	4.5	12	8	9	11	n.	Naval Air Station.
Charlotteburg†	Passaic	760	54	29.2	+2.1	62	14	7	5†	2.66	-0.98	1.19	19-20	13.0	10	9	5	14	nw.	Newark Water Dept.
Chatham	Morris	185	42							2.14	-1.39	0.88	19-20	9.0	9					Edward P. Molitor.
Chatsworth	Burlington	90	6	35.2		73	27	9	4†	2.13		1.12	19-20		6	9	10	9	w.	Alfred L. Stevenson.
Clayton	Gloucester	120	33																	Harry P. Campbell.
Clinton	Hunterdon	300	3							1.98		0.78	19-20	7.3	10	13	4	11	nw.	L. W. Klockner.
Culvers Lake†	Sussex	760	45							2.12	-0.68	0.90	19-20	10.7	9					L. S. Depue.
Elizabeth	Union	34	67	31.9	+0.6	65	14	8	22	2.26	-1.56	1.16	19-20	6.5	10	14	0	14	nw.	Union County Park Comm.
Flemington, 2 mi. N.E.	Hunterdon	140	60	32.5	+2.1	65	14	3	22	1.62	-1.59	0.68	19-20	6.5	9	14	3	11	nw.	Hiram E. Deats.
Freehold	Monmouth	194	43	33.4	+1.9	63	14	9	4	2.01	-1.78	1.20	19-20	8.0	9	14	4	10	nw.	Moreau Plant Co.
Hammononton	Atlantic	95	40	33.3	-1.1	61	14	8	4	2.09	-1.21	0.83	19-20	3.0	10	15	5	8	n.	J. G. Wilson.
Hightstown	Mercer	110	53	32.9	+1.9	64	14	9	4	2.10	-1.17	1.21	19-20	4.0	8	9	9	10	nw.	James R. Pickering
Indian Mills†, 2 mi. W	Burlington	100	57	34.8	+2.2	72	27	9	4	2.23	-1.14	1.05	19-20	2.6	9	12	7	9	nw.	Edward Entwistle.
Jersey City	Hudson	81	48	29.7	-2.0	63	14	11	3†	1.86	-1.65	0.65	19-20		8	12	5	11	nw.	J. C. Water Dept.
Lakewood	Ocean	54	42	34.2	+2.5	67	27	10	4	2.62	-0.88	1.50	19-20		8	8	7	13	nw.	R. W. Holman.
Lambertville	Hunterdon	75	59	32.5	+1.8	65	14†	9	4	2.14	-1.09	1.31	19-20	3.0	8	8	6	14	nw.	Mabel Wollaston.
Layton†, 3 miles NW.	Sussex	480	45	27.4	+1.9	63	14	-9	22	1.58	-1.12	0.85	19-20	12.8	10	12	2	14	nw.	A. M. Depue.
Little Falls	Passaic	157	43	31.2	+0.9	66	14	8	22	2.35	-1.04	1.37	19-20	11.5	10	10	9	9	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	38	32.8	+1.4	62	14	10	4	2.32	-1.27	1.22	19-20	0.7	9	11	6	11	nw.	Storm Warn. Display Sta.
Long Valley	Morris	660	16	29.5	+1.8	61	14	-4	22	2.64	-0.10	1.00	19-20	13.0	7	16	4	8	nw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	5							2.24		1.20	19-20	3.6	9	12	7	9	nw.	David Griscorn.
Mays Landing	Atlantic	50	2							2.48		0.83	19-20	3.0	10	12	4	12	nw.	Elmer Earle.
Millville	Cumberland	60	6							2.35		0.84	19-20	4.5	9	13	7	8		Paul Ritchie.
Moorestown	Burlington	62	83	33.9	+2.1	71	27	11	4	2.22	-1.07	1.06	19-20	1.3	7					Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	400	5	29.5		63	14	-1	22	2.13		1.12	19-20	10.5	10	13	2	13		James C. Long.
Newark	Essex	10	92	31.0	+1.2	65	14	11	22	1.46	-2.06	0.74	19-20	6.4	8	9	5	14	w.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	92	32.6	+1.5	65	14	9	4	1.34	-2.07	0.80	19-20	4.5	7	14	4	10	nw.	N. J. Experiment Station.
New Milford†	Bergen	12	28							2.48	-0.46	1.22	19-20		9					Hackensack Water Co.
Newton	Sussex	769	63	26.8	-0.4	60	14	5	5†	2.23	-0.96	0.73	19-20	10.9	11	9	8	11	nw.	Irving J. Kern.
Orange†	Essex	140	6							2.50		1.21	19-20		8					County Engineer.
Paterson	Passaic	95	75	30.4	-0.2	65	14	10	4†	1.84	-2.04	0.81	19-20	8.6	9	11	7	10	w.	J. W. Cook.
Pemberton	Burlington	55	17	36.0	+2.4	72	27	11	4	2.13	-0.52	1.02	19-20	0.5	11	13	5	10	sw.	Charles A. Doehrlert.
Phillipsburg	Warren	182	63	29.4	+0.4	63	14	5	22	2.39	-1.00	0.83	19-20	8.5	11	13	4	11		Town Engineer.
Plainfield	Union	120	58	31.4	+1.5	66	14	9	22	2.29	-1.29	1.25	19-20	7.2	11	9	7	12	nw.	S. K. Pearson.
Plainsboro	Middlesex	110	5							1.46		0.90	19-20	3.0	6					Walker-Gordon Lab.
Pleasantville†	Atlantic	8	48	36.0	+2.6	63	17	10	16	2.65	-0.38	0.68	19-20		9		9	11	nw.	N. J. Dept. of Conservation.
Rahway	Union	20	7							1.47		0.75	19-20	8.0	7	10	8	10	nw.	Louis Fontenelli.
Ridgefield	Bergen	80	29	30.3	+0.3	65	14	9	22	2.63	-0.57	1.51	19-20	10.2	10	9	9	10	nw	George P. Kirsten.
Runyon†	Middlesex	18	23	30.8	+0.2	60	14	2	22	2.01	-1.17	1.05	19-20		6	14	7	7	w.	N. J. Dept. of Conservation.
Rutherford	Bergen	51	2	31.8		66	14	10	22	2.27		1.23	19-20	10.0	10					Harold Scott.
Sandy Hook	Monmouth	15	48	32.1	0.0	60	14	13	3†	1.71	-2.04	0.84	19-20	0.7	7	10	8	10	nw.	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	63	31.0	+1.0	66	14	6	22	1.98	-1.45	0.96	19-20	5.0	7	8	9	11	w.	Joseph Starkman.
Sussex	Sussex	450	51	29.0	+2.0	62	14	-3	22	2.84	-0.25	0.70	27	8.5	9	11	4	13	w.	Marshall Hunt.
Toms River	Ocean	33	25							2.32	-1.61	1.23	19-20		7					Robt. F. Snyder.
Trenton	Mercer	56	74	33.0	+2.3	66	14	11	4	1.63	-1.64	0.97	19-20	5.7	8	9	7	12	nw.	U. S. Weather Bureau.
Trenton No. 2	.....do.	105	16	33.2	+1.5	65	14	11	4	2.35	-0.45	1.47	19-20	5.6	8					Edward H. Ristow.
Tuckerton	Ocean	23	53	35.2	+1.8	62	17	8	4	2.24	-1.18	0.80	19-20	2.0	10	12	5	11	nw.	John H. Brown.
Vineland	Cumberland	110	66							1.41	-2.18	0.45	10-11		6	11	7	10	se.	Robert Jones.
Westfield	Union	145	7							2.12		1.18	19-20	8.0	7	12	7	9	nw.	Town Engineer.
Woodcliff Lake†	Bergen	103	28							2.57	-0.43	1.50	19-20		9					Hackensack Water Co.
New York, N. Y.		10	76	31.4	+0.1	61	14	12	4	1.74	-2.08	1.07	19-20	5.7	11	9	7	12	nw.	U. S. Weather Bureau.
Philadelphia, Pa.		10	76	35.4	+1.5	70	27	13	4	2.06	-1.26	1.12	19-20	2.8	7	10	5	13	nw.	U. S. Weather Bureau.
For the State				32.3	+1.6	73	27	-9	22	2.16	-1.31	1.51	19-20	6.4	9	11	6	11	nw.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for February 1946

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast					.04	.11	.06		.07	.12	.10		T.	.58	T.				.47	.01				.01	T.		.37	.03			1.97	
Barnegat City ⁴	do.					.04				.06	.20	.10			.05					.87			.01					.45			1.78		
Bass River	do.																																
Belleplain	Tuckahoe										.40	.30			.21	.10				.08	.35				.06				.41			1.91	
Belmar ²	Coast					.24	.04		.19	T.					.18					.67	.50		T.			T.		.46	.01			2.29	
Belvidere	Delaware					.22	.60		.05					.12	.14	T.				.20	.98		.05	.04		T.		.13	.45			2.98	
Berlin	Mullica					.23			.21						T.					.20	1.10				T.		T.		.33			1.87	
Boonton ³	Passaic	T.				.07	.42				.01				.08	.03	T.			.19				.07		.02	T.		.11			2.00	
Bridgeton	Delaware					.11	.24	.28			.53				.07					.08	.58							.61			2.50		
Brooklawn	do.					.14	.34		.08						.11						1.10							.44			2.21		
Burlington	do.					.07	.01		.42	.09					.18						1.30				.20				.61			2.47	
Canoe Brook ³	Passaic	.04				.07	.50			.12					.09	.08				.29			.02		T.	T.		.02	.27			2.50	
Canton	Delaware	.02				.08	.23		.03	.17	.55				T.	T.				.62					.02			.32			2.04		
Cape May ^{2†}	Coast				.01	.15	.18		.04	.15	.12			T.	.66	T.				.54	.04			.21	T.			.30	.12			2.53	
Charlotteburg	Passaic					.29	.38		.06					.08	.26					.19				.10	.02			.09	.19			2.66	
Chatham ³	do.	.07				.09	.42			.16				.10		.11				.88				T.		T.		.65	.26			2.14	
Chatsworth	Coast					.28	T.		.21						.20	T.				1.12								.32				2.13	
Clayton	Delaware																																
Clinton	Raritan					.18	.40		.07					.10	.25	T.				.18	.60			.04	T.			.10	.06			1.98	
Culvers Lake	do.					.27	.25							.12	.28					T.	.90		.08	.02		.05		.15				2.12	
Elizabeth	Coast					.11	.20		.13	.05				.02	.10	T.				T.	1.16			.15	.01			T.	.33			2.26	
Essex Fells	Passaic				.07	.32			.10					.90							1.20							.28				2.87	
Flemington	Raritan					.13	.39		.06					.06	.09					T.	.68				.02		T.		.01	.18			1.62
Freehold	do.					.04	.17		.14	.05				T.	.08	T.				.60	.60				.03		T.		.30			2.01	
Hammonton	Mullica					.37			.16	.05	.14				.13					.31	.52			.02	.03		T.		.36			2.09	
Hightstown	Raritan	T.				.05	.17		.10	.03				T.	.12	T.					1.21			T.	T.	T.	T.	.42				2.10	
Indian Mills	Mullica					.10	.17		.19	.04				T.	.06	T.				.18	.87			T.	.02	T.		.60				2.23	
Jersey City ²	Coast	T.				.30			.22					.02	.06	T.				.30	.35		T.		T.			.55	.06			1.86	
Lakewood	Metedeconk					.03	.23		.13	.05				T.	.13	T.				T.	1.50				.05			.50				2.62	
Lambertville	Delaware					.11	.37		.07					.08	.15	T.				.31	1.00				T.	T.		.05	T.			2.14	
Layton	do.					.07	.04							.10	.33					*	.85			.03	T.		.04	.09	.03			1.58	
Little Falls ³	Passaic	.01				.10	.66		.05						.10	.04				T.	1.37			.05	T.	T.	T.	.01	.26			2.35	
Long Branch ^{2†}	Coast				T.	.25	.04		.20					T.	.07	T.				.79	.43		T.		.01		T.	.49	.04			2.32	
Long Valley ³	Raritan					.63			.15						.22	.13				1.00						.28		.23				2.64	
Manville	do.					.15	.30		.02					.03	.09	T.				.66	.11		T.		T.		.22	T.			1.58		
Marlton	Delaware					.10	.15		.23						.09	.05				.10	1.10				.02			*	.40			2.24	
Mays Landing	Gt. Egg Harbor					.08	.17		.12	.03	.30				.51	T.				.06	.77				T.	T.			.44			2.48	
Midland Park	Passaic																																
Millville ^{2†}	Maurice					.27			.20		.41				.23					.76	.08			.03				.31	.06			2.35	
Moorestown ³	Delaware	.24				.02	.23	T.		.13				T.	.14	.11	T.				1.06		T.			T.		.43				2.22	
Morris Plains	Passaic					.22	.39		.07	T.					.04	.03	T.			T.	1.12			.03	.01	T.	.01	T.	.13			2.13	
Newark ¹	Coast				T.	.19	T.		.15						.04	.03	T.			.46	.28				.01		T.	.30	T.			1.46	
New Brunswick	Raritan					.04	.09		.10					.02	.05	T.				T.	.80				T.			.24				1.34	
New Milford ^{2†}	Hackensack					.43			.06					.11	.16					.74	.48			.04				.43	.03			2.48	
Newton	Delaware					.27	.31		.02					.19	.20	T.				T.	.08	.65			.06		.03	.10	.32	T.		2.23	
Orange ^{2†}	Passaic					.24	.34		.08						.14					1.21				.05				.03	.41			2.50	
Patterson ²	do.	T.				.45			.07					.14	.05	T.				.65	.16		.06	T.	T.		T.	.25	.01			1.84	
Peimberton	Delaware					.04	.18		.15	.09					.11	.02				.03	.99				.01	.01		T.	.50			2.13	
Phillipsburg	do.	T.			T.	.68	.03		.09	T.				.12	.04	T.				T.	.48	.35		T.		.04	T.	.06	.38	.12		2.39	
Plainfield	Raritan	T.				.11	.23		.07	.07				.04	.11	T.				T.	.35	.90		T.	T.	.01		T.	.01	.39		2.29	
Plainsboro	do.					.08	.14		.10											*	.90							.24				1.46	
Pleasantville ³	Coast	.48				.10	.19		.14	.31	.29					T.				*	.68				.04			.42				2.65	
Rahway ^{2†}	Rahway					.22			.16					.05	.03					.45	1.06		.02		T.		T.		.26			1.47	
Ridgefield	Hackensack					.40	.02		.15						.12	.01				T.	.45						T.	T.	.37			2.63	
Ringwood	Passaic					.14	.37			.01					.14	.04					1.23			.07			T.	.05	.14			2.19	
Runyon	Coast					.06	.25		.18						.05						1.05							.42				2.01	
Rutherford	Passaic					.25	.09		.13					.07	.11	T.				T.	.30	.93		.04	T.		T.	.12	.23			2.27	
Sandy Hook ^{2†}	Coast	T.				.20	T.		.19						.15	T.				.38	.46					T.	T.	.27	.06			1.71	
Somerville	Raritan						T.		.40					.20	.22	T.				*	.96				.02				.18			1.98	
Sussex	Hudson					.40	.60		.10					.20	.30	T.																	

Daily Temperatures for February 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*	Maximum...	40	47	32	35	35	49	48	43	45	42	35	42	48	50	37	40	52	45	46	47	34	44	47	42	36	47	52	52	.....	43.3
	Minimum...	30	31	20	12	24	35	31	26	36	30	28	25	37	35	29	19	39	29	26	34	26	24	30	33	29	30	43	37	.....	29.2
Barnegat City†	Maximum...	38	47	31	32	36	45	43	39	41	40	33	40	43	52	36	38	56	41	45	44	31	38	44	44	34	46	50	45	.....	41.1
	Minimum...	28	28	16	14	22	31	30	25	32	30	27	26	35	32	20	17	31	29	28	30	22	20	28	29	25	25	42	32	.....	26.9
Belleplain	Maximum...	48	45	43	31	35	53	67	42	42	42	45	49	61	49	39	61	60	47	44	40	49	44	38	61	70	55	.....	.....	47.9	
	Minimum...	25	20	18	7	18	28	32	24	23	30	23	14	29	30	22	10	32	20	20	18	24	13	27	23	25	22	24	36	.....	22.8
Belvidere	Maximum...	40	42	33	32	30	48	50	41	37	36	40	44	37	53	36	39	52	38	29	41	31	35	44	34	34	34	39	44	.....	39.0
	Minimum...	27	21	18	10	11	28	30	22	27	22	19	22	30	35	15	14	24	28	15	25	14	3	19	22	19	16	27	30	.....	21.2
Boonton /	Maximum...	33	42	26	29	33	52	38	42	37	35	39	42	59	63	30	36	51	32	29	38	23	33	42	53	30	33	42	38	.....	38.6
	Minimum...	27	19	18	10	8	14	30	20	21	29	17	19	23	30	26	9	15	25	13	15	14	1	14	28	27	10	18	31	.....	19.0
Bridgeton	Maximum...	39	47	35	32	34	51	52	44	42	40	38	42	47	64	43	39	55	49	39	47	35	50	42	44	35	66	73	68	.....	45.8
	Minimum...	28	25	20	13	19	31	33	25	32	27	22	19	29	39	21	15	30	26	22	32	25	19	29	28	25	25	37	35	.....	26.1
Burlington	Maximum...	50	46	39	34	32	50	56	50	48	40	40	50	44	66	44	46	55	70	55	40	37	40	43	40	35	43	65	47	.....	46.6
	Minimum...	33	34	19	10	18	29	35	40	37	32	33	36	29	35	20	12	35	34	21	22	19	26	26	25	26	24	30	35	.....	27.7
Canoe Brook /	Maximum...	27	17	18	9	8	16	29	20	20	29	18	17	26	34	26	8	18	25	12	18	15	-2	10	24	24	10	21	33	.....	18.9
	Minimum...	38	45	34	30	36	47	45	39	46	42	36	40	45	51	36	38	53	44	45	37	44	47	43	36	48	50	46	.....	42.3	
Cape May*	Maximum...	32	34	23	16	23	36	35	30	36	30	28	29	36	36	24	22	37	32	23	37	28	27	32	33	34	32	42	39	.....	30.9
	Minimum...	46	42	37	32	30	43	51	39	39	37	39	40	42	62	45	34	51	50	30	34	33	31	41	40	35	30	40	39	.....	39.7
Charlotteburg	Maximum...	24	18	15	8	7	25	28	17	18	26	13	12	23	34	13	7	29	25	9	21	9	10	22	22	22	9	25	30	.....	18.6
	Minimum...	51	47	43	32	34	49	55	36	42	42	43	45	48	64	50	39	61	53	38	42	38	41	45	44	35	58	73	61	.....	46.8
Chatsworth	Maximum...	28	18	18	9	10	32	31	22	20	31	24	22	28	45	20	9	32	22	14	30	21	12	26	22	28	21	28	34	.....	23.5
	Minimum...	42	47	36	33	29	45	53	43	38	38	39	44	43	65	45	40	57	49	33	41	35	34	45	40	34	35	41	43	.....	41.7
Clayton	Maximum...	27	20	18	10	14	28	30	21	24	30	21	19	25	37	17	11	27	23	16	27	12	8	19	28	27	17	30	33	.....	22.1
	Minimum...	46	45	36	38	31	47	49	48	39	39	47	48	43	65	46	39	56	46	32	43	35	33	47	41	35	35	44	44	.....	42.8
Elizabeth	Maximum...	27	21	18	9	12	27	30	23	26	31	20	21	28	36	20	14	22	28	17	26	17	3	21	22	25	16	29	33	.....	22.2
	Minimum...	47	45	36	32	32	50	51	42	41	38	39	43	45	63	42	38	56	49	33	40	33	35	42	38	33	42	61	55	.....	42.9
Flemington	Maximum...	27	24	17	9	15	29	31	21	28	31	21	22	28	38	17	13	31	29	18	27	15	17	24	27	27	23	30	33	.....	24.0
	Minimum...	36	48	40	37	36	48	48	45	44	43	43	45	45	61	45	47	52	45	36	40	39	43	48	39	39	59	45	.....	44.1	
Freehold	Maximum...	24	23	11	8	12	29	28	20	23	28	16	17	25	39	19	10	30	24	21	28	15	14	25	33	25	21	28	33	.....	22.5
	Minimum...	50	45	36	33	32	49	53	42	41	38	40	44	43	64	44	39	55	48	34	40	34	35	42	40	33	39	48	43	.....	42.5
Hightstown	Maximum...	27	24	17	9	14	28	31	22	27	30	21	21	28	38	18	14	30	27	17	27	16	12	22	23	26	19	30	34	.....	23.3
	Minimum...	48	46	39	33	33	53	57	42	42	41	41	44	48	64	42	39	60	49	35	43	34	42	45	30	34	59	72	57	.....	45.8
Indian Mills	Maximum...	28	23	18	9	10	30	32	24	23	31	24	20	29	42	19	11	33	22	14	31	22	12	26	24	27	22	29	35	.....	23.9
	Minimum...	34	43	26	29	32	43	39	40	37	36	34	40	40	63	38	32	51	33	32	36	23	29	40	37	30	29	36	40	.....	36.5
Jersey City*	Maximum...	27	25	11	11	11	32	31	21	32	30	18	25	31	38	13	13	32	20	14	23	15	15	26	29	20	29	30	30	.....	22.9
	Minimum...	49	45	36	32	31	51	54	39	42	40	35	41	48	61	43	36	58	45	34	42	34	35	43	39	35	45	67	57	.....	43.5
Lakewood	Maximum...	28	25	19	10	16	30	32	24	25	31	24	23	29	41	19	13	33	28	20	29	20	14	26	24	29	22	31	34	.....	25.0
	Minimum...	43	45	35	35	32	49	48	43	39	38	44	41	41	65	65	45	55	45	32	41	33	40	43	34	34	41	47	44	.....	43.0
Lambertville	Maximum...	27	20	17	9	11	28	30	22	25	30	20	20	27	35	16	15	24	27	12	27	17	13	21	22	25	18	28	31	.....	22.0
	Minimum...	40	41	29	29	30	45	48	40	37	37	39	42	37	63	42	37	51	48	30	36	30	35	40	33	32	25	35	38	.....	38.2
Layton	Maximum...	26	11	16	7	3	29	26	17	19	26	11	16	25	32	12	12	24	20	7	21	9	9	21	12	22	1	22	27	.....	16.6
	Minimum...	36	45	29	31	39	55	39	44	38	36	41	44	60	66	28	54	53	34	37	40	29	39	46	35	32	37	41	41	.....	41.0
Little Falls /	Maximum...	28	21	28	10	10	22	31	21	23	17	18	21	30	36	25	11	22	27	14	18	14	8	18	29	24	17	23	33	.....	21.4
	Minimum...	35	47	30	31	32	53	41	42	42	36	35	42	48	62	34	35	58	38	36	41	27	36	43	39	34	40	55	43	.....	40.5
Long Branch*	Maximum...	25	25	15	10	18	31	32	24	30	33	26	25	31	34	15	14	34	26	20	30	19	16	27	27	24	23	33	33	.....	25.0
	Minimum...	36	47	35	34	32	50	39	47	36	34	50	42	58	61	29	37	51	41	30	41	27	33	42	34	36	34	43	42	.....	40.0
Long Valley /	Maximum...	26	18	16	7	28	10	28	20	28	17	19	19	30	23	9	20	24	13	24	14	-4	14	10	23	12	32	32	.....	19.0	
	Minimum...	37	45	30	32	32	55	42	43	40	40	40	43	52	66	35	38	56	40	37	40	31	40	41	36	31	48	71	43	.....	42.3
Moorestown*	Maximum...	29	27	17	11	18	30	31	26	28	30	25	25	30	35	19	16	33	25	20	31	21	18	28	30	28	23	30	30	.....	25.5
	Minimum...	46	44	36	30	29	39	52	41	41	45	40	43	58	63	35	36	51	32	32	39	35	32	43	33	30	41	42	.....	39.6	
Morris Plains	Maximum...	26	17	17	9	8	27	31	20	21	29	17	19	27	34	15	6	16	25	13	24	13	-1	16	26	26	8	27	32	.....	19.4
	Minimum...	36	46	29	31	31	53	40	43	39	38	44	43	65	34	36	55	35	33	39	25	11	42	35	32	33	39	41	38.8		
Newark*	Maximum...	25	25	13	13	14	30	31	22	29	31	22	25	28	34	15																

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CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.
TRENTON, N. J.

VOL. LI.

MARCH 1946.

No. 3

GENERAL SUMMARY.

This was the third warmest March of record in New Jersey. In only two previous years, 1903 and 1945, has the month averaged warmer. It resembled much the warm March of last year. At Trenton, there were only three days with freezing temperature and only one day with temperature average below normal. The month began near seasonable but soon changed to unusually warm. Highest readings were reached on the 28th and 29th when several stations recorded 80° or slightly higher. Every month this year has been warmer than normal and the average daily excess of temperature since January 1, has been 4.0°.

Precipitation, while 83 percent of normal, was considerably more than in March last year and much more than in either January or February of this year. At time of this writing, April 20, need for more rain is beginning to be seriously felt in some parts of the State. Rainfall in March was quite well-distributed however, with an average of ten days having light to moderate showers. No measurable snowfall occurred and only a few stations reported traces. Only two other Marches of record have had as little snow. Sunshine percentage was high. The prevailing wind was from the southwest and no unusually high velocities were attained. Vegetation and farm work were both far advanced at close of the month. Part of the crop of commercial white potatoes had been planted.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 42 stations, was 47.9°, which was 8.5° above normal. The highest temperature was 83° at Layton on the 28th, and the lowest, 8°, at Layton on the 1st. The highest monthly average temperature was 51.6° at Burlington, and the lowest, 44.2° at Layton. The temperature departure from the normal for the year 1946, to date, for the State, is +4.0°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 60 stations, was 3.17 inches, which was 0.64 inch below normal. The average total snowfall at 30 selected stations was Trace, which was 4.5 inches below normal. The greatest monthly precipitation was 5.13 inches at Burlington, and the least, 1.80 inches at Vineland. The greatest amount of precipitation in any 24 consecutive hours was 2.06 inches at Atlantic City on the 18th. The average for the Highlands was 3.04 inches; for the Red Sandstone Plain, 3.07 inches; for the Southern Interior, 3.41 inches; and for the Sea Coast, 2.69 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -3.19 inches; Red Sandstone Plain, -4.39 inches; Southern Interior, -3.38 inches; Sea Coast, -4.03 inches.

DATES OF MISCELLANEOUS PHENOMENA.

THUNDERSTORMS: 9, 18, 24, 26, 27.
HEAVY FOG: 2, 6, 7, 8, 9, 15, 25, 26, 29, 30.
SLEET: 18.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.53	12	29.61	30	17.4	47	ne.	30	81	68	76	66	549
Long Branch.....	30.52	12	29.56	9	11.6	45	w.	9	65	52	56	72	528
Newark.....	30.51	12	29.56	9	.....	43	w.	9	74	44	62	.....	502
Trenton.	30.52	12	29.57	9	9.3	32	sw.	9	74	45	58	66	488

COMPARATIVE DATA FOR MARCH.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	30.4	66	2	1.10	.....	.....	.....	.....	.....
1886.....	37.7	70	9	3.70	.....	.....	.....	.....	.....
1887.....	37.7	61	8	3.34	.....	10	.....	.....	.....
1888.....	32.8	72	0	5.71	.....	11	.....	.....	.....
1889.....	40.5	67	19	3.79	.....	8	.....	.....	.....
1890.....	37.6	78	0	6.08	.....	14	.....	.....	.....
1891.....	37.2	68	4	5.06	.....	12	8	10	13
1892.....	34.4	64	6	4.75	.....	9	10	12	9
1893.....	37.0	68	6	3.73	.....	10	10	10	11
1894.....	44.2	83	12	1.77	.....	10	12	11	8
1895.....	36.7	72	7	3.16	4.0	10	12	8	11
1896.....	34.0	69	-8	5.34	13.2	11	13	8	10
1897.....	40.0	77	18	2.78	1.6	10	11	9	11
1898.....	45.1	77	16	3.33	3.0	12	9	10	12
1899.....	38.6	73	13	6.54	5.4	13	7	10	14
1900.....	35.6	67	-9	3.51	7.0	10	12	12	7
1901.....	39.2	75	-8	4.64	0.9	12	9	10	12
1902.....	43.9	77	0	4.34	5.7	11	12	10	9
1903.....	47.6	79	13	5.13	T.	10	11	8	12
1904.....	37.2	72	1	3.43	4.5	13	11	8	12
1905.....	39.8	87	-7	3.95	2.6	12	14	8	9
1906.....	34.4	62	-15	5.09	11.2	11	10	9	12
1907.....	41.2	88	-11	3.04	11.5	10	13	10	8
1908.....	41.8	89	7	2.80	3.5	12	11	9	11
1909.....	38.3	74	-6	3.48	4.6	13	12	10	9
1910.....	44.5	88	10	1.22	1.1	6	14	10	7
1911.....	37.6	76	3	3.38	5.3	11	10	12	9
1912.....	36.9	72	3	7.61	6.6	14	9	11	11
1913.....	44.8	79	1	5.15	0.1	12	10	9	12
1914.....	35.4	75	-6	3.65	20.5	10	13	10	8
1915.....	36.1	63	11	1.13	7.4	3	20	7	4
1916.....	31.7	71	-7	3.48	19.3	12	13	8	10
1917.....	38.2	72	0	4.65	9.8	13	12	8	14
1918.....	41.8	82	8	2.06	0.7	9	17	7	7
1919.....	43.2	77	12	5.32	1.6	13	14	7	10
1920.....	39.4	79	-8	3.80	5.6	10	17	5	9
1921.....	49.1	92	11	3.03	T.	11	14	10	7
1922.....	41.1	82	2	4.52	3.7	13	12	6	13
1923.....	38.0	81	-3	4.09	6.3	10	17	6	8
1924.....	38.8	76	5	2.51	2.7	8	16	6	9
1925.....	43.3	80	1	3.47	0.3	9	16	6	9
1926.....	35.1	79	0	2.25	0.4	7	16	9	6
1927.....	41.9	81	9	1.46	0.3	10	14	7	10
1928.....	38.3	82	6	2.84	4.9	10	14	8	9
1929.....	44.9	81	5	3.07	0.7	11	15	6	10
1930.....	40.0	78	9	2.54	0.1	7	16	7	8
1931.....	39.2	64	12	4.14	2.0	10	8	9	14
1932.....	36.6	69	3	5.49	2.5	9	14	6	11
1933.....	38.2	70	8	4.94	1.7	13	10	7	14
1934.....	36.5	77	-7	3.31	9.6	12	13	7	11
1935.....	43.0	81	-6	2.46	1.5	10	13	5	13
1936.....	45.3	78	-1	5.28	1.4	13	10	9	12
1937.....	35.8	66	7	2.75	4.3	10	14	6	11
1938.....	43.2	85	-1	2.15	1.6	11	12	7	12
1939.....	40.1	83	2	4.83	2.0	13	12	7	12
1940.....	34.7	72	8	5.14	3.3	12	10	9	12
1941.....	34.5	63	3	2.78	14.6	8	16	6	9
1942.....	42.2	72	16	5.78	1.7	12	10	8	13
1943.....	39.4	85	-10	3.03	6.5	10	13	7	11
1944.....	37.1	74	2	5.70	6.3	12	10	10	11
1945.....	49.2	91	11	2.37	0.1	10	14	7	10
1946.....	47.9	83	8	3.17	T.	10	15	7	9
Period.....	39.4	92	-15	3.81	4.5	12	13	8	10

Climatological Data for March 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	73	47.3	+8.7	72	27	31	1	3.58	-0.02	2.06	18	0	7	13	6	12	s.	U. S. Weather Bureau.
Barnegat City.....	Ocean.....	36	7	46.0	.....	69	27	28	12	2.04	.....	0.80	18	.....	7	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	52	49.5	+8.3	77	5	15	12	3.37	-0.45	1.25	18	.....	9	14	6	11	sw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	5	.....	.....	.....	.....	.....	.....	2.44	.....	0.70	15	.....	11	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	54	47.8	+9.1	80	29	19	1	3.46	-0.36	0.94	18	0	11	16	6	9	.....	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	5	.....	.....	.....	.....	.....	.....	3.61	.....	0.80	14	0	8	14	7	10	ne.	Samuel H. McCulley.
Boonton.....	Morris.....	280	56§	45.2	+8.9	78	29	16	1	2.19	-1.37	0.99	26	0	8	16	5	10	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	63	50.8	+8.3	80	28	22	12	3.28	-0.78	1.20	18	0	7	16	7	8	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	5	.....	.....	.....	.....	.....	.....	2.85	.....	1.12	17-18	0	7	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	60§	51.6	+9.2	78	28†	20	12	5.13	+1.34	1.56	18-19	0	10	19	5	7	sw.	Public Service E. & G. Co.
Canoe Brook††	Essex.....	180	16	45.5	+8.3	81	29	13	1	3.05	-1.55	1.14	26	.....	10	16	8	7	w.	N. J. Dept. of Conservation.
Cape May.....	Cape May.....	17	58	47.3	+5.5	69	28	30	1	2.52	-1.32	0.98	18	0	12	10	8	13	s.	Naval Air Station.
Charlotteburg††	Passaic.....	760	54	45.8	+9.4	80	28	9	1	2.64	-1.42	1.07	26	0	9	11	2	18	w.	Newark Water Dept.
Chatham.....	Morris.....	185	42	.....	.....	.....	.....	.....	.....	3.16	-0.93	1.25	26-27	0	10	.....	.....	.....	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	6	47.8	.....	81	28	13	12	3.21	.....	1.05	18	0	7	14	10	7	sw.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	3	.....	.....	.....	.....	.....	.....	3.68	.....	1.08	26	0	13	16	4	11	sw.	L. W. Klockner.
Culvers Lake††	Sussex.....	760	45	.....	.....	.....	.....	.....	.....	2.80	-0.51	0.68	27	T.	10	.....	.....	.....	.....	L. S. Dupue.
Elizabeth.....	Union.....	34	67	50.2	+10.6	82	29	19	12	3.60	-0.47	1.35	26	0	12	15	6	10	ne.	Union County Park Comm.
Flemington, 2 mi. N.E..	Hunterdon.....	140	60§	49.2	+8.6	82	28	19	12	3.17	-0.59	0.83	18	0	12	16	7	8	sw.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	42§	48.5	+8.7	77	29	22	12	3.07	-1.42	0.69	26	T.	10	14	10	7	sw.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	40§	50.8	+8.0	80	28	15	12	4.52	+0.55	1.74	17	0	7	11	9	11	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	110	53	48.0	+7.3	78	29	20	12	3.57	-0.20	0.98	26-27	T.	10	14	10	7	sw.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington.....	100	57	48.9	+7.8	80	28	15	12	3.29	-0.72	1.40	18	0	9	14	8	9	sw.	Edward Entwistle.
Jersey City.....	Hudson.....	81	48	47.1	+7.0	76	28	24	1	2.99	-0.98	1.16	26-27	0	12	17	7	7	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	42	48.2	+7.7	78	28†	17	12	3.07	-0.89	0.71	15	0	10	10	8	13	ne.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	59	47.4	+7.9	77	28†	19	12	4.65	+0.87	1.37	26-27	0	14	9	6	16	sw.	Mabel Wollaston.
Layton††, 3 miles NW.	Sussex.....	480	45	44.2	+8.4	83	28	8	1	1.96	-1.40	0.56	26-27	0	8	17	3	11	sw.	A. M. Dupue.
Little Falls.....	Passaic.....	157	43	47.3	+8.3	81	29	17	1	2.36	-1.41	0.95	26	0	8	16	8	7	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	38	47.7	+8.2	76	14†	23	12	2.53	-1.59	0.93	26	T.	11	15	7	9	sw.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	16	45.8	+10.0	78	29	16	1†	3.92	0.00	0.97	26	0	8	17	7	7	nw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	5	.....	.....	.....	.....	.....	.....	3.58	.....	1.56	18	0	11	17	6	8	sw.	David Griscom.
Mays Landing.....	Atlantic.....	50	2	.....	.....	.....	.....	.....	.....	3.83	.....	1.79	18	0	11	13	7	11	sw.	Elmer Earle.
Millville.....	Cumberland.....	60	6	.....	.....	.....	.....	.....	.....	4.11	.....	1.56	18	0	9	17	6	8	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	83	48.6	+8.6	77	28	22	12	3.11	-0.57	0.72	18-19	0	10	.....	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris.....	400	5	47.4	.....	79	29	13	1	3.32	.....	1.06	26	T.	9	16	7	8	.....	James C. Long.
Newark.....	Essex.....	10	92	48.8	+9.2	80	29	25	12	3.16	-0.74	1.28	26	T.	11	11	11	9	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	92	48.6	+9.5	78	28	20	12	3.37	-0.31	1.39	26-27	T.	10	19	3	9	ne.	N. J. Experiment Station.
New Milford††	Bergen.....	12	28	.....	.....	.....	.....	.....	.....	2.83	-0.93	1.28	15	.....	7	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	63	47.0	+10.9	79	28†	16	1	2.86	-0.52	0.78	26	0	13	15	8	8	sw.	Irving J. Kern.
Orange††	Essex.....	140	6	.....	.....	.....	.....	.....	.....	2.78	.....	1.08	27	0	6	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	75	48.3	+8.9	81	29	19	1	2.71	-1.44	0.97	15	0	8	14	12	5	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	17	50.2	+8.1	79	28	20	12	3.18	-0.41	1.08	18	0	10	16	6	9	sw.	Charles A. Doehliert.
Phillipsburg.....	Warren.....	182	63§	45.8	+7.3	78	28	19	12	3.82	+0.33	1.04	26	T.	11	16	6	9	.....	Town Engineer.
Plainfield.....	Union.....	120	58	47.8	+8.5	82	29	20	12	3.30	-0.79	1.07	26	T.	14	14	8	9	sw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	5	.....	.....	.....	.....	.....	.....	1.84	.....	0.90	15	0	5	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††	Atlantic.....	8	48	48.2	+7.6	74	14	14	12	3.75	+0.12	0.96	18	0	9	11	6	14	e.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	7	.....	.....	.....	.....	.....	.....	2.88	.....	1.09	25-26	0	9	12	13	6	sw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	29	47.6	+8.8	81	29	20	3	3.36	-0.62	1.39	15	0	11	14	8	9	e.	George P. Kirsten.
Runyon††	Middlesex.....	18	23	45.2	+5.9	78	28	10	12	4.16	+0.55	1.93	26-27	.....	9	16	9	6	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	2	48.5	.....	81	29	23	1†	2.64	.....	0.96	26	0	10	12	11	8	.....	Harold Scott.
Sandy Hook.....	Monmouth.....	15	48	47.1	+7.8	79	28	28	1†	3.05	-0.99	1.65	26	T.	11	11	12	8	w.	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset.....	385	63	.....	.....	.....	.....	.....	.....	2.82	-1.00	0.85	18	0	9	12	10	9	w.	Joseph Starkman.
Sussex.....	Sussex.....	450	51	46.4	+9.4	80	29	14	1	2.90	-0.54	0.80	8-9	0	9	13	4	14	sw.	Marshall Hunt.
Toms River.....	Ocean.....	33	25	.....	.....	.....	.....	.....	.....	3.23	-1.31	0.90	15	0	9	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	74	49.4	+10.3	79	28	27	1	3.53	+0.13	1.04	18-19	T.	11	13	7	11	ne.	U. S. Weather Bureau.
Trenton No. 2.....	.....do.....	105	16	49.0	+8.7	80	28	25	1†	4.22	+0.18	1.16	18	T.	11	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	53	48.0	+6.6	74	28	25	1	2.82	-1.08	0.84	18	0	9	17	2	12	e.	John H. Brown.
Vineland.....	Cumberland.....	110	66	.....	.....	.....	.....	.....	.....	1.80	-2.15	0.57	15	0	7	16	7	8	se.	Robert Jones.
Westfield.....	Union.....	145	7	.....	.....	.....	.....	.....	.....	2.97	.....	1.09	26	0	9	16	6	9	s.	Town Engineer.
Woodcliff Lake††	Bergen.....	103	28	.....	.....	.....	.....	.....	.....	2.77	-0.93	1.07	15	.....	7	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	.....	10	76	49.6	+11.9	75	29	27	1	3.31	-0.33	1.29	26	T.	11	12	9	10	e.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	76	51.5	+10.7	77	28	30	12	2.70	-0.69	1.08	18	T.	10	13	5	13	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	47.9	+8.5	83	28	8	1	3.17	-0.64	2.06	18	T.	10	15	7	9	sw.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for March 1946

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast		T.					I	.04	.05						.77	T.	T.	2.06	T.					.45	T.	.11				T.	.10		3.58
Barnegat City ¹	do.								.02										.80	*	*	1.67			.50	.15	.37				T.	.01	.19	2.04
Bass River	do.		T.						.21	.20							1.02	.03								.36	.01	.38			T.			3.67
Belleplain	Tuckahoe								.21	.05							.73			1.25	.05					.18	.30				T.	.15	.45	3.37
Belmar ²	Coast		.01	T.					.02	.05	.08		T.	T.			.70			.32	T.					.28	.15	.54	T.		.06	.23	2.44	
Belvidere	Delaware		.07	.02					.30	.16							.54			.94						.34	.24	.52	T.			.13	3.46	
Berlin	Mullica		T.				T.		.22							.80	T.		.79	.75	T.		T.			.35		.25			.25	.20	3.61	
Boonton ³	Passaic			T.				T.	.06	.15							.42	.08		T.	.04					.42		.99			.25	.03	2.19	
Bridgeton	Delaware		T.						.14								.89			1.20						.11	.14		.15			.65	3.28	
Brooklawn	do.							T.	.30								.60	.09	T.	1.12				T.		.09					.08		2.85	
Burlington	do.						.10	.30	.10								.70			1.06	.50					.75	.17	.50	T.		.95		5.13	
Canoe Brook ³	Passaic			.03					.07	.24							.37	.18		.08	.39					.41		1.14				.14	3.05	
Cantow	Delaware			.01					.11	.19							.53			.98	.10	T.				.25			.07			.38	2.72	
Cape May ^{2†}	Coast		.12					.04	.12	.01							.06	T.	.01	.98	.02					.20	.02	T.			.88	.06	2.52	
Charlotteburg	Passaic		.03						.11	.23							.70			.05						.40	.01	1.06			.05		2.64	
Chatham ³	do.			.04					.11	.26							.36	.16		.05	.37					.42		1.25			.14		3.16	
Chatsworth	Coast							T.	.20								.78			*	1.12					T.	.30		.28			.53	3.21	
Clayton	Delaware																																	
Clinton	Raritan		.06	.01				.17	.06	.20							.61			.85	.01					.13	.35	.35	.73		T.	.15		3.68
Culvers Lake	do.		.35				.10	.20	.66								.48	.01	T.	.12						.19		.68			.01		2.80	
Elizabeth	Coast			T.	.02			.04	.12	.34							.80	.01	T.	.31	.03					T.	.48	.18	1.17			.10		3.60
Essex Fells	Passaic			T.				.09	.26								.46			.30							.34		.97			.03		2.45
Flemington	Raritan		.03	.06				.02	.03	.14							.65		T.	.83	.03					T.	.35	.26	.68			.09		3.17
Freehold	do.							.12	.14			T.					.66			.35	.37					.07	.33	.15	.54			.34	3.07	
Hammonctou	Mullica			T.				.26									1.05		1.74	.07						.36		.26			.78		4.52	
Hightstown	Raritan			T.				T.	.03	.30		T.					.95			.58	.18					.05	.25	.14	.84		T.	.25	3.57	
Indian Mills	Mullica			T.	T.				.09	.12							.67		T.	1.40	.04					.17	.15	T.	.30		T.	.35	3.29	
Jersey City ²	Coast			.03				.08	.15	.09							.80			.10						.06	.47	1.10	.06		.03	.02		2.99
Lakewood	Metedeconk								.08	.15							.71		.03	.40	.47					T.	.40	.02	.41		T.	.40	3.07	
Lambertville	do.		.13	.08	.08			T.	.11	.13							.95	T.	.06	.94	.05					.17	.36	.20	1.17		T.	.22	4.65	
Layton	do.							.24	.10	.46							.44			.04						.12	.21	.35					1.96	
Little Falls ³	Passaic							.09	.29								.43	.23		T.	.01						.34		.95			.02	2.36	
Long Branch ^{2†}	Coast			.03				.04	.07	.09		T.					.74		T.	.14	T.					.23	.08	.93	T.		.06	.12	2.53	
Long Valley ³	Raritan				.10				.32	.29							.70				.80						.62		.97			.12	3.92	
Manville	do.			T.				.02	T.	.09							.68			.58							.35		.92				2.64	
Marlton	Delaware			.01					.11	.26							.71		.02	1.56	.05					.18	.14	T.	.37		T.	.17	3.58	
Mays Landing	Gt. Egg Harbor							.07	.10								.69	.08	.01	1.70	.09					.29		.27			T.	.53	3.83	
Midland Park	Passaic			.01				.13		.20	.26						1.09									.34	.21	1.12			.01		3.37	
Millville ^{2†}	Maurice							.07	.12	.05							.92			1.56	.06					.27		.10			.96		4.11	
Moorestown ³	Delaware							.08	.25								.60	.05	T.	.57	.72					.31		.29			.14	.10	3.11	
Morris Plains	Passaic			T.				.04	.22	.20		T.					.83		T.	.35	T.					.51	.02	1.04			.11		3.32	
Newark ¹	Coast		.01				T.	.04	.14	.13							.86		T.	.12						.33	.11	1.28			.11	.03	3.16	
New Brunswick	Raritan			T.	T.			T.	.02	.19		T.					.55			.34	.20					.01	.44	.12	1.27			.23	3.37	
New Milford ^{2†}	Hackensack							.05	.11	.09							1.28			T.						.29	.05	.96					2.83	
Newton	Delaware			.02	.02			.16	.19	.61							.46	.04		.27						.01	.27	.26	.52			.03	2.86	
Orange ^{2†}	Passaic							.03	.21								.72									.44		1.08			.30		2.78	
Paterson ²	do.		T.					.08	.17	.12							.97		T.	T.						.35	.03	.95			.04		2.71	
Pemberton	Delaware			.01				.05	.19								.67	T.	T.	1.08	.07					.10	.19	T.	.36		T.	.46	3.18	
Phillipsburg	do.		.04					.22	.18	.25			T.				.62		T.	.85						.42	.04	1.04			.03	.13	3.82	
Plainfield	Raritan		.02	.01				.08	.05	.25							.75		T.	.35	.20					.12	.28	.45	.62		.01	.11		3.30
Plainsboro	do.								.15								.90			.70	.04											.05	1.84	
Pleasantville ³	Coast							.02	.09								.73	.13		.87	.96					.38		.28			T.	.29	3.75	
Rahway ^{2†}	Rahway		.03					.04		.29							.72			.21							.40	.09	1.00				2.88	
Ridgefield	Hackensack			.04		T.		.04		.12	.20						1.39		T.	.01						.05		.43	.30	.72			.06	3.36
Ringwood	Passaic				.02			.09	.18								.33	.12			.32	.23					.62		.60			T.	1.96	
Runyon	Coast				.06			.29									.67			.32						.44	.44	.62	1.31		.22		4.16	
Rutherford	Passaic		T.					.02	.03	.20							.90		T.	T.														

Daily Temperatures for March 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Atlantic City*.....	Maximum...	42	50	54	50	66	53	59	56	58	47	46	46	54	62	59	47	45	43	43	44	51	54	52	50	63	56	72	69	58	57	44	53.2	
	Minimum....	31	38	37	41	49	43	47	43	39	34	34	33	43	48	42	42	43	40	41	36	35	35	41	40	47	47	50	52	49	44	40	41.4	
Barnegat City†.....	Maximum...	42	50	51	58	58	48	58	54	56	47	45	46	55	70	67	56	44	43	43	45	50	52	49	52	60	54	69	66	59	58	44	53.2	
	Minimum....	30	32	37	35	30	39	43	43	42	31	31	28	40	44	38	38	40	38	38	38	38	40	40	36	44	47	47	51	46	44	38	38.9	
Belleplain.....	Maximum...	46	58	53	70	77	75	70	64	58	50	47	53	70	74	70	62	49	45	55	57	62	68	61	54	71	65	72	76	70	63	52	61.8	
	Minimum....	21	24	33	26	61	36	53	45	46	43	25	15	40	46	53	42	41	40	32	29	29	28	38	23	32	53	41	42	37	44	35	37.2	
Belvidere.....	Maximum...	47	42	53	65	65	59	63	52	60	42	44	53	67	75	62	64	50	47	59	64	73	71	61	60	62	67	73	79	80	67	57	60.8	
	Minimum....	19	31	33	29	35	32	38	33	40	30	26	20	33	35	48	37	39	37	37	26	29	30	34	27	40	40	48	42	43	42	34	34.7	
Boonton/.....	Maximum...	43	42	47	64	62	54	64	59	53	44	41	49	67	73	55	60	51	48	52	63	68	69	58	60	63	69	69	76	78	61	55	58.6	
	Minimum....	16	22	32	26	31	33	34	33	36	31	24	18	30	34	39	35	33	32	37	26	26	25	35	26	25	39	42	46	45	49	33	31.9	
Bridgeton.....	Maximum...	53	55	55	75	75	74	74	54	59	50	46	55	72	76	68	61	54	49	48	61	68	72	62	56	68	67	73	80	73	63	56	63.0	
	Minimum....	25	29	33	31	40	38	41	43	48	45	31	29	22	35	43	43	43	40	38	31	32	33	38	32	41	49	48	45	43	47	40	38.5	
Burlington.....	Maximum...	50	51	52	71	73	55	70	70	56	60	55	55	69	75	75	73	55	48	48	59	66	70	68	60	62	67	70	78	78	60	58	63.1	
	Minimum....	26	41	46	31	40	38	41	43	37	32	28	20	32	49	47	50	41	39	38	33	30	63	54	31	41	57	58	44	43	38	36	40.2	
Canoe Brook/.....	Maximum...	44	41	50	70	62	53	71	59	54	47	43	52	59	77	54	57	50	45	51	63	67	72	58	62	65	69	71	79	81	73	60	59.5	
	Minimum....	13	27	29	22	32	28	35	31	42	29	19	15	27	38	51	40	29	38	35	20	22	21	35	21	40	35	46	34	38	54	30	31.5	
Cape May*.....	Maximum...	42	47	50	45	64	50	54	52	58	46	45	47	67	58	66	49	46	45	44	46	52	59	51	47	58	54	68	69	60	58	45	53.1	
	Minimum....	30	37	39	38	44	41	46	45	41	41	38	31	43	47	46	44	43	42	41	34	34	36	41	33	46	47	51	50	47	44	40	41.5	
Charlotteburg.....	Maximum...	42	41	45	65	65	60	66	60	58	50	39	48	69	75	73	59	50	48	54	61	67	72	71	60	62	67	69	80	79	73	60	60.9	
	Minimum....	9	28	34	21	36	31	35	31	38	28	18	12	29	38	48	29	28	40	34	18	21	31	21	31	20	37	32	48	44	39	46	29	30.7
Chatsworth.....	Maximum...	50	57	54	75	75	76	74	70	58	47	45	55	72	76	72	58	50	46	44	59	65	71	58	60	60	70	69	81	77	68	56	62.8	
	Minimum....	19	25	32	25	35	34	38	44	44	32	22	13	28	42	18	48	36	39	38	28	27	25	36	21	41	42	40	34	45	36	28	32.7	
Clayton.....	Maximum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elizabeth.....	Maximum...	44	45	51	69	67	57	74	.....	58	48	45	53	68	77	71	58	50	49	52	63	68	72	65	64	65	70	73	79	82	71	61	62.4
	Minimum....	25	32	32	27	38	37	40	37	42	30	25	19	29	41	41	37	34	41	38	40	55	27	56	52	40	39	47	44	43	53	35	37.9	
Flemington.....	Maximum...	52	42	55	73	73	60	72	63	60	52	47	54	71	77	72	61	52	46	52	62	70	75	67	60	68	67	75	82	79	70	62	63.6	
	Minimum....	20	27	34	28	36	34	37	42	32	24	19	28	37	51	39	37	38	28	27	27	35	27	40	39	49	40	49	40	42	54	33	34.7	
Freehold.....	Maximum...	45	55	51	70	71	51	75	64	59	47	44	53	68	74	66	54	48	45	49	57	63	70	59	60	63	71	68	76	77	66	62	60.7	
	Minimum....	23	30	33	35	44	37	39	41	41	28	26	22	34	46	45	38	36	38	36	28	27	28	32	31	41	44	48	46	46	47	35	36.3	
Hammonton.....	Maximum...	52	48	64	69	75	70	71	70	63	50	48	51	68	71	68	56	46	55	44	58	65	71	61	58	56	64	70	80	79	73	55	62.2	
	Minimum....	28	38	43	37	40	32	58	51	41	37	42	15	36	49	58	45	39	36	36	26	25	43	38	39	41	45	51	45	54	38	32	39.4	
Hightstown.....	Maximum...	46	47	51	70	73	67	74	67	59	46	44	52	67	73	68	54	48	46	48	58	64	69	62	59	62	65	68	77	78	64	54	60.6	
	Minimum....	23	27	32	33	40	36	37	38	40	32	25	20	33	44	49	39	36	38	35	29	27	26	35	30	40	40	46	45	44	48	33	35.5	
Indian Mills.....	Maximum...	50	56	52	74	75	71	76	66	60	49	45	54	71	75	65	57	52	45	47	60	65	72	61	59	59	66	70	80	78	63	54	62.2	
	Minimum....	18	28	34	29	39	32	50	45	42	32	22	15	29	46	45	41	40	39	38	29	28	24	37	26	41	42	47	45	40	47	35	35.6	
Jersey City*.....	Maximum...	38	40	47	66	59	49	70	51	52	43	40	46	64	73	60	54	45	44	47	58	60	59	54	55	60	60	69	76	74	61	49	55.6	
	Minimum....	24	34	35	36	45	36	41	39	37	31	28	27	37	48	47	40	39	39	37	32	36	36	36	36	40	48	48	53	52	46	34	38.6	
Lakewood.....	Maximum...	55	51	52	74	71	53	74	64	58	49	45	52	71	76	63	52	45	44	41	55	68	67	56	60	65	69	69	78	78	65	50	60.1	
	Minimum....	22	36	34	30	43	37	40	42	38	37	24	17	31	50	43	39	35	39	37	30	28	26	37	35	42	40	47	43	41	46	35	36.3	
Lambertville.....	Maximum...	52	40	50	72	74	58	70	63	60	43	42	53	69	74	66	61	61	45	56	62	68	71	62	59	63	65	71	77	77	68	58	61.7	
	Minimum....	20	25	32	26	34	35	35	40	20	29	19	13	29	35	49	37	37	37	25	27	26	34	27	39	38	45	40	41	37	32	33.2		
Layton.....	Maximum...	48	40	47	51	55	59	60	50	57	44	40	50	70	75	64	62	52	51	57	64	70	78	62	59	62	68	69	83	79	67	54	59.6	
	Minimum....	8	30	29	21	31	28	33	26	39	28	18	13	29	30	58	29	30	40	28	18	20	22	31	19	31	45	40	49	41	45	52	33.4	
Little Falls/.....	Maximum...	44	47	50	70	62	53	71	61	56	51	47	43	54	79	56	60	52	49	51	64	68	72	60	61	66	70	72	80	81	63	63	60.5	
	Minimum....	17	29	35	25	36	36	39	33	42	31	28	24	20	32	42	35	33	43	37	25	27	27	35	27	40	40	49	41	45	52	33	34.1	
Long Branch*.....	Maximum...	41	50	51	73	66	46	70	54	59	47	45	46	70	76	59	50	46	43	45	53	60	59	55	56	64	65	69	74	76	60	49	57.3	
	Minimum....	29	34	34	33	40	38	45	42	38	30	27	23	35	51	45	38	41	39	39	33	31	30	36	33	43	44	48	49	50	44	38	38.1	
Long Valley/.....	Maximum...	52	41	53	67	68	53	66	58	55	46	42	48	67	74	55	58	50	41	52	62	68	70	58	60	62	66	70	77	78	62	55	59.2	
	Minimum....	16	34	31	25																													

51.05
NNJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

THE LIBRARY OF THE
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24

NEW JERSEY SECTION.

A. E. WHITE.
TRENTON, N. J.

VOL. LI.

APRIL 1946.

No. 4

GENERAL SUMMARY.

Temperature for April averaged practically normal and was not marked by any periods of extreme heat or cold. It was quite warm for the season on the 2d, 15th, 22d, 23d, and 24th with readings generally in the eighties on the 23d. Frost occurred on several mornings with killing frosts as late as the 18th in some localities. Little damage was caused by frost, however, as crops and vegetation were not sufficiently advanced.

The month was dry with an average of only 1.51 inches of rainfall. Only two Aprils have been drier, those of 1896 and 1942. The principal rains fell during the first and last weeks of the month. This was the fourth consecutive month with less than normal precipitation and from January 1 to May 1, 1946 there was only 59 percent of the normal amount in the State. By the end of April, the ground had become quite dry so as to interfere in some localities with plowing for corn and other crops. During the first half of May, however, good rains have greatly improved conditions. No station reported more than traces of snow on the ground, but in northern counties considerable snow melted as it fell on the 27th. Strong winds occurred in coastal areas on the 2d, 6th, and 15th, but no severe damage was reported.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 43 stations, was 50.1°, which was 0.3° above normal. The highest temperature was 86° at 3 stations on the 23d, and the lowest, 19°, at Layton on the 8th. The highest monthly average temperature was 54.3° at Burlington, and the lowest, 47.7° at Newton. The temperature departure from the normal for the year 1946, to date, for the State, is +3.1°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 63 stations, was 1.51 inches, which was 2.10 inches below normal. The average total snowfall at 30 selected stations was Trace, which was 1.2 inches below normal. The greatest monthly precipitation was 2.63 inches at Charlotteburg, and the least, 0.79 inch at Layton. The greatest amount of precipitation in any 24 consecutive hours was 1.35 inches at Plainsboro on the 2-3d. The average for the Highlands was 1.28 inches; for the Red Sandstone Plain, 1.37 inches; for the Southern Interior, 1.65 inches; and for the Sea Coast, 1.44 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -5.52 inches; Red Sandstone Plain, -6.74 inches; Southern Interior, -5.31 inches; Sea Coast, -6.13 inches.

DATES OF MISCELLANEOUS PHENOMENA.

THUNDERSTORMS: 1, 2, 3, 4.
HEAVY FOG: 30.
SLEET: 1, 8, 27.
HAIL: 1, 3, 8.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.51	21	29.34	26	16.5	39	s.	2	72	60	67	64	432
Long Branch.....	30.52	21	29.32	26	11.7	45	w.	6	70	55	67	68	470
Newark.....	30.50	21	29.31	26	.....	40	nw.	15	66	43	56	...	444
Trenton.....	30.51	21	29.32	26	10.8	27	nw.	5	67	39	49	64	423

COMPARATIVE DATA FOR APRIL.

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	48.4	88	26	2.79	.....	.....	.....	.....
1886.....	50.6	86	27	3.40	.....	.....	.....	.....
1887.....	47.3	87	16	2.70	.....	7	.....	.....
1888.....	47.9	92	22	3.28	.....	9	.....	.....
1889.....	51.2	83	25	5.32	.....	12	.....	.....
1890.....	50.4	86	21	2.65	.....	8	.....	.....
1891.....	52.0	88	20	2.19	.....	8	13	11
1892.....	49.3	87	19	2.49	.....	8	9	13
1893.....	49.2	82	19	5.21	.....	11	9	10
1894.....	50.3	88	10	3.09	.....	9	12	9
1895.....	49.1	89	19	4.88	T.	10	11	7
1896.....	52.4	98	12	1.35	3.1	7	13	10
1897.....	50.4	89	19	3.79	T.	9	14	11
1898.....	47.8	81	13	3.74	2.9	11	8	11
1899.....	49.9	88	18	1.73	T.	4	16	10
1900.....	50.8	82	18	2.29	T.	6	14	9
1901.....	48.3	89	23	6.31	0	12	8	7
1902.....	50.2	93	20	3.62	0	9	10	11
1903.....	50.9	92	18	3.97	0	9	13	7
1904.....	46.7	85	16	3.42	0.1	10	9	12
1905.....	49.9	84	18	2.88	0.1	10	12	11
1906.....	51.2	87	17	3.64	T.	8	15	10
1907.....	45.2	83	19	3.78	4.8	11	11	9
1908.....	51.2	93	13	2.72	T.	11	14	9
1909.....	50.2	88	17	5.97	0.8	13	10	11
1910.....	53.5	88	20	5.34	0	12	9	11
1911.....	47.4	88	14	4.11	2.6	11	10	10
1912.....	50.4	82	18	3.56	0	14	9	10
1913.....	52.1	89	19	5.78	T.	11	14	7
1914.....	48.4	89	16	3.67	0	11	13	10
1915.....	54.4	96	20	2.71	11.5	9	14	6
1916.....	48.2	85	21	3.32	4.4	13	10	11
1917.....	48.8	88	21	2.39	4.7	9	15	8
1918.....	49.8	81	22	4.05	2.6	12	11	8
1919.....	49.3	85	15	3.06	T.	10	13	7
1920.....	48.0	85	13	4.50	T.	13	12	9
1921.....	55.3	87	20	3.57	0.4	11	13	6
1922.....	51.0	89	18	2.55	T.	10	15	7
1923.....	50.0	91	3	3.55	0.5	9	16	8
1924.....	48.0	81	18	6.15	6.6	11	15	6
1925.....	51.4	88	15	2.40	0	9	15	7
1926.....	46.4	87	14	2.05	T.	8	13	10
1927.....	47.5	93	17	2.42	0.3	9	14	7
1928.....	47.4	85	16	5.26	0.9	12	12	8
1929.....	51.1	94	25	6.43	T.	15	10	5
1930.....	47.6	79	18	2.34	T.	9	13	7
1931.....	49.8	80	20	2.85	T.	9	15	6
1932.....	48.3	82	18	2.71	0.1	7	15	7
1933.....	50.4	85	20	4.84	0.2	11	12	7
1934.....	49.4	85	21	3.89	T.	13	15	6
1935.....	48.7	91	22	2.27	0.3	10	10	8
1936.....	48.0	90	19	3.23	0.1	12	11	8
1937.....	49.3	85	16	4.64	T.	12	11	9
1938.....	53.0	94	12	2.82	2.8	9	14	8
1939.....	48.3	89	20	5.12	0.1	14	9	8
1940.....	45.5	79	15	5.62	2.2	12	9	8
1941.....	55.4	96	19	2.32	1.6	5	19	6
1942.....	53.1	95	18	1.39	T.	4	15	8
1943.....	45.5	81	11	2.82	T.	11	12	9
1944.....	47.9	82	6	5.45	3.5	13	10	8
1945.....	54.5	90	20	3.28	T.	11	12	8
1946.....	50.1	86	19	1.51	T.	9	13	7
Period.....	49.8	98	3	8.61	1.2	10	12	9

Climatological Data for April 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	73	50.6	+2.8	80	2	34	11	1.89	-1.10	0.99	25-26	0	8	5	11	14	s.	U. S. Weather Bureau.
Barneget City.....	Ocean.....	36	7	19.8	.....	76	2	33	13	1.77	.....	0.70	25	0	7	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	52	50.8	+0.5	82	23	24	11	2.08	-1.52	0.72	25-26	0	8	14	8	8	w.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	5	.....	.....	.....	.....	.....	.....	1.45	.....	0.64	25	0	11	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	54	50.8	+0.9	86	23	28	8	1.28	-2.43	0.38	3†	T.	8	15	4	11	.....	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	5	.....	.....	.....	.....	.....	.....	1.68	.....	0.84	25	0	5	16	5	9	nw.	Samuel H. McCulley.
Boonton.....	Morris.....	280	56§	48.0	-0.3	81	23	24	8	1.52	-2.20	0.47	26-27	0	7	16	7	7	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	63	52.6	+0.2	82	23	31	7†	2.04	-1.36	0.64	25-26	0	7	17	4	9	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	5	.....	.....	.....	.....	.....	.....	0.90	.....	0.55	25	0	3	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	60§	54.3	+2.1	84	23	32	8†	1.38	-2.36	0.73	25-26	0	6	19	6	5	w.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	16	48.0	+0.5	82	23	20	8	1.29	-2.60	0.54	25-26	.....	9	16	6	8	nw.	N. J. Dept. of Conservation.
Cape May.....	Cape May.....	17	58	50.9	+0.9	76	2	36	11	2.56	-0.54	1.29	25	0	9	8	10	12	nw.	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	54	48.0	+1.1	81	22	21	8	2.63	-1.51	0.60	25-26	T.	10	9	1	20	w.	Newark Water Dept.
Chatham.....	Morris.....	185	42	.....	.....	.....	.....	.....	.....	1.33	-2.83	0.54	25-26	0	10	17	7	6	.....	Edward P. Molitor.
Chatworth.....	Burlington.....	90	6	50.3	.....	86	23	22	8	1.69	.....	0.80	25-26	0	6	14	11	5	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	33	52.8	+1.6	84	23	30	7	1.67	-1.93	0.44	25-26	0	9	16	10	4	nw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	3	.....	.....	.....	.....	.....	.....	1.06	.....	0.39	25-26	0	11	16	4	10	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	45	.....	.....	.....	.....	.....	.....	0.87	-2.62	0.24	25-26	0	9	.....	.....	.....	.....	L. S. Depue.
Elizabeth.....	Union.....	34	67	50.3	-0.9	79	22	25	8	2.01	-1.67	0.74	2	T.	14	15	0	15	nw.	Union County Park Comm.
Flemington, 2 mi. N.E.....	Hunterdon.....	140	60§	52.0	+1.5	84	21	24	8	1.20	-2.42	0.45	25-26	0	10	16	6	8	nw.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	42§	50.0	0.0	81	23	27	8	1.60	-2.08	0.55	25-26	0	11	21	1	8	sw.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	40§	51.8	+0.5	78	15†	26	8	1.88	-1.94	0.60	25	0	8	9	9	12	n.	J. G. Wilson.
Hightstown.....	Mercer.....	110	53	50.2	-0.1	80	23	25	8	1.54	-2.28	0.70	25-26	T	9	13	8	9	nw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	57	50.6	0.0	86	23	24	8	1.50	-2.11	0.83	25-26	0	9	10	11	9	nw.	Edward Entwistle.
Jersey City.....	Hudson.....	81	48	48.0	-2.5	74	2	32	11	1.17	-2.65	0.55	25-26	0	9	11	9	10	nw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	42	50.3	+0.5	79	22	26	8	1.49	-2.37	0.50	25-26	0	9	10	11	9	nw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	59	50.4	+0.3	80	23†	26	8	0.82	-2.91	0.45	25-26	0	5	14	6	10	nw.	Mabel Wollaston.
Layton††, 3 miles NW.....	Sussex.....	480	45	47.0	+0.1	82	23	19	8	0.79	-2.74	0.26	25-26	0	7	11	3	16	nw.	A. M. Depue.
Little Falls.....	Passaic.....	157	43	50.4	+0.7	82	23	26	8	1.44	-2.78	0.55	25-26	T.	10	10	14	6	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	38	49.2	+0.7	78	15	32	11	1.57	-2.65	0.58	25	0	10	14	5	11	nw.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	16	47.4	-0.3	80	23	24	8	1.18	-2.47	0.33	25	0	9	16	7	7	nw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	5	.....	.....	.....	.....	.....	.....	1.55	.....	0.77	25-26	0	9	17	7	6	nw.	David Griscom.
Mays Landing.....	Atlantic.....	50	2	.....	.....	.....	.....	.....	.....	1.99	.....	0.97	25-26	0	7	18	4	8	nw.	Elmer Earle.
Millville.....	Cumberland.....	60	6	.....	.....	.....	.....	.....	.....	1.79	.....	0.90	25-26	0	8	12	9	9	nw.	Paul Ritchie.
Moorestown.....	Burlington.....	62	83	49.8	-0.7	82	23	28	8	1.28	-2.13	0.70	25-26	0	7	10	6	14	nw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	5	48.1	.....	80	23	24	8	1.84	.....	0.67	2-3	T.	7	14	4	12	.....	James C. Long.
Newark.....	Essex.....	10	92	50.2	0.0	78	2	32	8	1.20	-2.52	0.54	25-26	0	11	10	7	13	nw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	92	50.2	+0.4	79	23	28	8	1.00	-2.64	0.60	25-26	0	7	17	0	13	nw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	28	.....	.....	.....	.....	.....	.....	1.54	-2.07	0.48	2	.....	9	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	63	47.7	-0.3	83	23	25	8	1.46	-1.90	0.39	3	T.	14	9	12	9	nw.	Irving J. Kern.
Orange††.....	Essex.....	140	6	.....	.....	.....	.....	.....	.....	1.32	.....	0.29	25	.....	11	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	75	49.8	-0.8	80	23	28	8	1.58	-2.01	0.52	25-26	0	9	14	7	9	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	17	52.2	+0.5	84	23	27	8	1.58	-1.65	0.80	25-26	0	11	15	5	10	nw.	Charles A. Doehlert.
Phillipsburg.....	Warren.....	182	63§	48.4	-1.1	82	23	27	8	0.99	-2.35	0.19	25	T.	10	12	11	7	nw.	Town Engineer.
Plainfield.....	Union.....	120	58	50.5	+0.9	82	23	27	8	1.43	-2.34	0.56	25-26	T.	10	10	8	12	n.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	5	.....	.....	.....	.....	.....	.....	1.85	.....	1.35	2-3	.....	4	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	48	50.6	+1.5	83	2	27	8	2.05	-1.49	1.03	25-26	0	7	12	8	10	s.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	7	.....	.....	.....	.....	.....	.....	1.24	.....	0.45	25-26	0	9	10	16	4	n.	Louis Fontenelli.
Ridgefield.....	Bergen.....	89	29	49.0	+0.1	78	23	27	8	1.46	-1.91	0.58	25-26	T.	10	11	8	11	nw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	23	49.0	+0.6	75	24	22	9	1.50	-2.23	0.62	25-26	.....	7	17	11	2	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	2	50.0	.....	77	23	30	8	1.50	.....	0.60	25-26	0	11	13	8	9	.....	Harold Scott.
Sandy Hook.....	Monmouth.....	15	48	50.3	+2.0	72	2	35	11	1.42	-2.20	0.77	25-26	0	12	6	15	9	n.	U. S. Coast Guard.
Somerville, 2 mi. N.....	Somerset.....	385	63	.....	.....	.....	.....	.....	.....	1.06	-2.47	0.42	25-26	.....	7	11	10	9	w.	Joseph Starkman.
Sussex.....	Sussex.....	450	51	49.2	+0.6	85	23	23	8	1.05	-2.43	0.27	25-26	T.	10	10	1	19	nw.	Marshall Hunt.
Toms River.....	Ocean.....	33	25	.....	.....	.....	.....	.....	.....	1.73	-2.16	0.80	25-26	0	9	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	74	51.0	+1.2	81	23	33	11	1.16	-1.78	0.65	25-26	0	9	9	9	12	nw.	U. S. Weather Bureau.
Trenton No. 2.....	do.....	105	16	51.2	+0.6	82	23	30	8	1.26	-2.38	0.57	25	T.	8	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	53	51.2	+1.5	80	2	28	11	1.48	-2.14	0.86	25-26	0	7	12	7	11	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	66	.....	.....	.....	.....	.....	.....	2.57	-0.87	1.26	25-26	0	8	15	9	6	nw.	Robert Jones.
Westfield.....	Union.....	145	7	.....	.....	.....	.....	.....	.....	1.50	.....	0.52	2	.....	5	13	6	11	se.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	28	.....	.....	.....	.....	.....	.....	1.32	-2.35	0.31	2†	.....	9	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	.....	10	76	49.8	+0.4	75	23	34	11	1.28	-1.95	0.63	25-26	T.	11	10	7	13	nw.	U. S. Weather Bureau.
Philadelphia, Pa. ....	.....	10	76	52.8	+0.7	82	23	36	11	1.46	-1.59	0.82	25-26	0	7	8	10	12	nw.	U. S. Weather Bureau
For the State.....	.....	.....	.....	50.1	+0.3	86	23	19	8	1.51	-2.10	1.35	2-3	T.	9	13	7	10	nw.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for April 1946

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast	.03	.05		T.				.53	.02			T.				.01				T.				T.	.78	.21	T.		.06	T.		1.89
Barneget City ⁴	do.		.26		.11				.38	.04																.70	.26			.02			1.77
Bass River	do.	.03	.26	.02	.02						.47	T.	T.		.02															.85	.06		1.73
Belleville	Tuckahoe					.15			.43	.08				.10												.36	.72				.21	.03	2.08
Belmar ²	Coast	.04	.16	T.	.01	T.			.27	.01							.04	T.			.03					.64	.17	.01		.06		1.45	
Belvidere	Delaware	T.		.33	T.	.05			.09							T.	.15		T.		.04					T.	.38	.10		.10		1.28	
Berlin	Mullica		.16						.40							.10		T.								.84				.18		1.68	
Boonton ³	Passaic		.06	.17	T.					.18							T.				.08						.45	.47		.16		1.52	
Bridgeton	Delaware		T.	.13					.48								T.				.08					.42	.64	.08		.21		2.04	
Brooklawn	do.								.26								.55	T.									.55	T.		.09		0.90	
Burlington	do.			.20		.07			.18																	.19	.54			.20		1.38	
Canoe Brook ³	Passaic		.07	.17					.18								.02				.01						.54	.18	T.	.01	.11	1.29	
Canton	Delaware		.06	.29		.02			.49				.05														.97	.05		.12	T.	2.05	
Cape May ^{2†}	Coast	T.	.08	T.	.03				.62	.01				.16			.01				T.				T.		1.29	.23	T.		.13		2.56
Charlotteburg	Passaic		.08	.48		.04			.05	.19							.10									.02	.60	.36		.11		2.63	
Chatham ³	do.		.06	.21	.01			T.		.17							.01				.01						.54	.21	.02		.09	1.33	
Chatsworth	Coast			.23	.25				*	.41																	.80					1.69	
Clayton	Delaware	T.		.25	.01	T.			.36	T.			.05				.06				T.				T.	.32	.44	.01		.17		1.67	
Clinton	Raritan		.05	.28	.04				.08	.02							.03				.01					.05	.34	.08		.08		1.06	
Culvers Lake	do.		.03	.21		T.			.03	.07							.03								.01		.05	.24	.14		.11		0.87
Elizabeth	Coast		.10	.74	.01	.02	.02		.02	.16				T.			.04				.03				T.	.03	.60	.15		.08	.01	2.01	
Essex Falls	Passaic		.28						.18																T.	.03	.60			.09		1.37	
Flemington	Raritan		.04	.26	.02		T.		.03								.08				.02					.07	.45	.12		.11		1.20	
Freehold	do.		.04	.38		.04			.14	.12							.03				.06					.10	.55	.04		.10		1.60	
Hammonton	Mullica			.32	.03	T.			.45				T.				.05									.60	.31	T.	.03	.09		1.88	
Hightstown	Raritan		T.	.36	T.	T.			.08	.14						T.	.02			.05					T.	.17	.53	.09		.10		1.54	
Indian Mills	Mullica		T.	.15	.02	T.			.27	.06			T.				.05				T.				T.	.30	.53	.02		.10		1.50	
Jersey City ²	Coast		.05	.09					.18							.02										.29	.25	.25		.02		1.17	
Lakewood	Metedeconk		.05	.10	.04				.23	.16			T.	T.			.05									.27	.50	T.		.09		1.49	
Lambertville	Delaware		T.	.07					T.	T.																.05	.45	.15		.10		0.82	
Layton	do.		.05	.14					.02	.06																	.26	.10		.16		0.79	
Little Falls ³	Passaic		.06	.28				.02		.23							T.				.01						.55	.21	.01	.03	.04	1.44	
Long Branch ^{2†}	Coast		.06	.19	T.	.02	T.		.26								.05				.10						.58	.24	.03		.04		1.57
Long Valley ³	Raritan		.10	.22		.03			.02	.09							.12											.33			.17	.10	1.18
Manville	do.		T.	.09					.06								.02										.40	.08	.03	.02			0.70
Marlton	Delaware			.20	.04				.24	.05			T.				.08										.25	.52	.03		.14		1.55
Mays Landing	Gt. Egg Harbor	T.	.35						.45	.09			.03				.01										T.	.97	T.		.09		1.99
Midland Park	Passaic		.03	.38					.25																	.02	.29	.31	.19				1.57
Millville ^{2†}	Maurice			.18					.46				.08				.01										.82	.08	.04		.12		1.79
Moorestown ³	Delaware		T.	.12	.02	T.			.24				T.				.04											.70	.01		.15	1.28	
Morris Plains	Passaic		T.		.67	.01		T.		.14			T.				T.				.06						T.	.48	.34		.14	1.84	
Newark ¹	Coast		.06	.26		.02			.13	T.			T.	T.			.02	.01		T.		.02					T.	.36	.19	.10	.03	1.20	
New Brunswick	Raritan			.16			T.		.01	.10							T.										.05	.55	.08		.05	1.00	
New Milford ^{2†}	Hackensack		.04	.48					.17	.02							.01										.27	.28	.22		.05		1.54
Newton	Delaware		.01	.06	.39	.11	.03	.01	.08	.16							.04	T.										.31	.11		.11	T.	1.46
Orange ^{2†}	Passaic		.09	.25				.02	.20	.01							.02				.02						.29	.17	.17		.08		1.32
Paterson ²	do.		.10	.44		T.		.02	.22	T.							T.	T.			.03						.35	.17	.18		.07		1.53
Pemberton	Delaware		T.	.18	.03	.01			.15	.09			.09				.07				.01						.21	.59	T.		.15		1.58
Phillipsburg	do.		.03	T.	.15	.02	T.	T.	.08	T.			T.				.08	.05									T.	.19	.15	.15		.09	0.99
Plainfield	Raritan			.13	.34	.01	T.		.12	.06				T.			T.	.03				.01						.19	.37	.17			1.43
Plainsboro	do.			1.35	T.																						*	*	.50			1.85	
Pleasantville ³	Coast			.32						.57				.02			.01										T.	1.03	.02		.08	2.05	
Rahway ^{2†}	Rahway		.10	.30					.14	T.							*	.10									*	.45	.10		.05	1.24	
Ridgefield	Hackensack		T.	.08	.30		.03		.10	.11											.08						.04	.54	.20		.03	1.46	
Ringwood	Passaic			.06	.19		.04	T.		.20								.05				.02						.46	.25	.03	.04	.05	1.39
Runyon	Coast		.06		.25				.24																		.15	.62	.10		.08		1.50
Rutherford	Passaic			.10	.26			.03		.19	.05						T.										.11	.49	.16		.06	.01	1.50
Sandy Hook ^{2†}	Coast		.09	.23		T.		.01		.20	.01			T.			.01	.03									.58	.19	.04		.02		1.42
Somerville	Raritan			.09	.19			T.		.04	.04																						

Daily Temperatures for April 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*	Maximum...	48	80	61	53	54	65	57	46	61	55	55	47	47	54	60	64	52	55	66	74	54	63	69	70	57	61	51	59	56	53	58.2
	Minimum....	41	47	47	45	40	40	38	37	41	37	34	40	37	44	47	44	41	44	47	46	40	46	47	52	50	43	41	38	49	46	43.0
Barnegat City†	Maximum...	48	76	60	60	51	63	54	45	58	52	58	46	48	54	66	65	51	57	64	70	51	68	66	64	60	61	54	58	54	53	57.9
	Minimum....	40	47	48	44	36	37	37	35	40	38	34	40	33	41	46	50	40	41	42	40	42	45	52	49	48	40	39	40	44	41	41.7
Belleplaine	Maximum...	68	81	72	73	54	66	60	52	69	64	57	48	53	60	77	72	58	64	75	70	68	75	82	76	68	61	58	58	61	63	65.4
	Minimum....	31	30	41	43	44	28	27	25	39	30	24	38	29	30	49	49	32	25	30	27	34	39	37	50	47	49	40	32	42	43	36.1
Belvidere	Maximum...	51	76	65	57	53	60	56	47	60	52	58	53	58	66	73	61	63	66	66	63	69	82	86	76	67	60	47	62	54	75	62.7
	Minimum....	37	40	45	46	41	36	33	28	38	38	30	35	30	34	43	42	33	31	43	48	36	40	41	59	47	45	37	34	37	40	38.9
Boonton /	Maximum...	48	73	54	54	47	56	53	49	56	48	55	51	52	65	69	52	64	64	63	63	66	79	81	74	64	60	44	57	52	69	59.4
	Minimum....	34	34	45	37	41	37	35	24	34	35	32	33	34	31	32	43	33	28	39	45	39	37	37	46	44	48	36	36	35	32	36.5
Bridgeton	Maximum...	53	81	66	60	54	68	56	47	61	56	57	50	57	66	80	73	65	69	70	72	66	79	82	75	68	60	53	60	65	69	64.6
	Minimum....	34	46	52	42	45	35	31	31	40	31	31	39	34	33	45	50	39	34	38	49	37	39	42	61	52	50	40	34	43	42	40.6
Burlington	Maximum...	55	75	73	59	55	62	58	55	60	57	57	55	56	64	78	75	62	64	66	69	64	78	84	73	71	63	65	59	73	72	65.0
	Minimum....	35	47	51	42	43	40	38	32	41	32	32	40	35	50	45	54	32	32	60	50	58	38	43	52	50	48	58	40	39	42	43.6
Canoe Brook /	Maximum...	61	76	53	54	49	60	55	50	59	53	57	52	57	65	72	55	62	66	65	65	67	80	82	76	64	61	46	60	53	72	61.6
	Minimum....	32	40	45	32	38	28	26	20	36	37	23	28	26	26	44	46	28	25	32	47	28	32	34	50	39	51	36	32	33	39	34.4
Cape May*	Maximum...	48	76	60	52	53	62	52	45	58	52	52	47	53	56	73	65	51	54	65	71	50	59	70	69	55	58	50	56	56	53	57.4
	Minimum....	40	48	51	45	47	43	38	37	41	40	36	40	39	43	48	51	41	42	47	50	42	46	49	52	50	45	41	43	49	48	44.4
Charlotteburg	Maximum...	53	75	71	52	52	53	55	47	53	52	53	53	56	64	69	60	63	63	60	64	78	81	79	78	57	53	55	54	71	61	61.3
	Minimum....	31	40	41	39	38	31	29	21	33	32	28	30	30	26	44	39	31	23	42	42	32	31	33	47	40	49	33	33	31	41	37.9
Chatsworth	Maximum...	56	80	69	55	50	65	57	48	59	58	55	55	52	65	79	77	61	67	67	67	66	78	86	75	74	62	57	57	59	69	64.2
	Minimum....	30	43	47	34	36	29	26	22	39	37	29	39	29	35	55	52	24	32	38	34	34	38	52	47	49	39	34	41	42	36.4	
Clayton	Maximum...	52	80	69	57	53	63	56	46	60	53	57	48	56	65	78	72	62	66	67	71	63	76	84	75	63	62	52	59	64	71	63.7
	Minimum....	36	45	48	43	42	31	30	32	39	34	32	43	32	47	44	47	38	36	55	53	38	49	42	60	51	39	34	53	42	41.9	
Elizabeth	Maximum...	51	78	72	54	51	60	57	53	61	56	60	56	53	63	73	73	64	67	69	68	68	79	72	74	64	62	57	63	59	70	63.6
	Minimum....	35	41	44	41	42	32	28	25	37	38	27	30	31	31	41	47	34	30	36	48	33	36	40	49	44	48	37	31	38	36	37.0
Flemington	Maximum...	53	78	70	56	55	62	58	57	61	54	62	59	56	71	76	73	68	68	72	67	72	83	84	81	71	59	53	63	58	73	65.8
	Minimum....	36	42	45	36	44	32	32	24	38	32	28	37	35	32	40	45	34	30	44	48	37	38	39	53	45	51	38	34	37	34	38.2
Freehold	Maximum...	48	75	69	52	51	61	71	51	58	53	56	51	51	64	75	71	60	65	65	68	64	77	81	75	65	60	51	58	53	68	62.2
	Minimum....	33	41	44	39	42	31	30	28	38	35	28	37	31	33	43	44	32	31	42	44	34	41	42	48	46	49	37	34	41	40	37.9
Hammonton	Maximum...	51	77	68	58	66	65	61	59	54	54	60	49	56	62	78	68	68	66	70	72	75	78	75	74	70	59	69	58	63	70	65.1
	Minimum....	28	43	45	40	40	28	28	26	28	30	28	39	28	39	47	46	42	39	49	45	35	38	48	59	51	46	38	29	38	38	38.6
Hightstown	Maximum...	50	75	69	54	52	62	58	52	58	54	56	54	53	64	75	73	60	65	65	67	64	77	80	74	69	60	52	57	56	71	62.5
	Minimum....	33	41	44	37	41	32	30	25	38	37	28	34	32	32	42	49	33	32	42	48	34	39	39	49	46	49	37	32	39	40	37.8
Indian Mills	Maximum...	50	80	69	55	52	64	56	50	59	53	58	51	56	65	78	75	62	66	67	72	65	78	86	76	65	62	52	59	60	70	63.7
	Minimum....	29	43	47	39	43	29	28	24	39	33	28	40	30	27	42	50	31	26	35	47	31	39	41	53	49	50	39	33	42	38	37.6
Jersey City*	Maximum...	42	74	59	47	46	54	53	42	54	49	56	46	44	60	70	61	55	62	64	67	67	65	60	59	54	45	57	51	59	54	56.1
	Minimum....	36	38	45	43	40	36	35	33	36	36	32	34	38	38	46	40	37	40	48	44	38	44	44	50	48	44	36	36	47	38	40.0
Lakewood	Maximum...	49	78	71	57	52	63	56	47	61	54	58	49	52	63	78	74	58	70	67	74	79	76	70	66	61	51	59	54	63	62	62.4
	Minimum....	31	41	40	36	42	33	32	26	39	36	30	38	30	34	43	49	35	29	40	45	36	41	40	50	45	49	38	36	40	42	38.2
Lambertville	Maximum...	54	73	62	56	56	60	56	53	57	55	58	58	55	65	74	72	63	67	67	66	66	77	80	76	61	50	58	57	71	63.4	
	Minimum....	36	41	44	36	41	32	32	26	37	36	27	36	32	34	43	45	34	30	38	48	36	39	38	46	45	47	36	33	37	35	37.3
Layton	Maximum...	49	75	68	58	51	67	51	46	54	49	54	49	54	65	68	59	59	65	64	62	64	78	82	77	70	60	59	56	70	60.5	
	Minimum....	31	39	44	30	35	27	31	19	35	35	30	23	23	24	45	38	25	21	33	42	34	30	35	56	40	30	31	31	36	32	36.0
Little Falls /	Maximum...	60	76	57	51	57	58	55	50	58	51	56	51	60	66	72	54	64	67	66	64	68	79	82	76	64	59	55	60	53	72	62.0
	Minimum....	35	39	45	40	42	45	33	26	36	39	31	35	32	40	47	45	35	32	49	46	42	49	38	38	50	45	51	37	35	38	38.9
Long Branch*	Maximum...	48	77	59	52	50	63	53	47	59	53	56	48	48	62	78	57	53	63	65	68	61	67	65	60	61	60	47	58	55	59	58.4
	Minimum....	35	44	47	44	39	35	33	34	39	36	32	40	33	37	46	42	38	33	43	46	39	43	43	49	47	45	38	37	45	38	40.0
Long Valley /	Maximum...	49	75	53	54	48	58	53	47	57	50	56	49	54	64	70	54	61	64	65	63	66	78	80	73	65	59	42	58	54	70	59.6
	Minimum....	35	38	43	34	42	29	28	24	36	35	26	32	31	28	39	44	30	27	33	43	33	35	35	54	52	50	35	31	32	32	35.2
Moorestown*	Maximum...	50	78	61	55	51	62	53	45	58	52	55	49																			

Climatological Data for May 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City.....	Atlantic.....	8	73	60.3	+2.2	85	30	46	4	4.74	+1.69	1.33	27	0	14	6	6	19	s.	U. S. Weather Bureau.
Barnegat City.....	Ocean.....	36	7	58.8	.....	82	30	44	1†	5.17	.....	1.86	27	0	13	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	52	62.8	+1.7	86	27	34	9	7.52	+4.20	2.25	27	0	14	13	7	11	sw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	5	.....	.....	.....	.....	.....	.....	4.40	.....	1.16	14	0	15	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	54	61.6	+0.5	90	25	32	9	7.39	+3.71	1.70	26-27	0	14	16	5	10	se.	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	5	.....	.....	.....	.....	.....	.....	5.28	.....	1.70	14	0	12	14	9	8	s.	Samuel H. McCulley.
Boonton.....	Morris.....	280	56†	57.8	-1.2	84	25†	31	9	8.60	+4.81	1.93	27-28	0	15	16	0	15	nw.	John Kline.
Bridgeport.....	Cumberland.....	30	63	63.4	-0.2	88	25	40	9†	7.92	+4.42	1.21	13	0	16	11	8	12	se.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	5	.....	.....	.....	.....	.....	.....	5.21	.....	1.45	14-15	0	8	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	60†	66.8	+3.7	90	25	43	30	4.96	+1.16	0.91	11-12	0	13	16	6	9	s.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	16	58.7	-0.3	88	25	27	9	6.33	+2.82	1.52	14-15	.....	14	15	7	9	sw.	N. J. Dept. of Conservation.
Cape May.....	Cape May.....	17	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	54	58.2	+0.3	85	30	27	9	7.48	+3.56	2.33	26-27	0	16	9	4	18	w.	Newark Water Dept.
Chatham.....	Morris.....	185	42	.....	.....	.....	.....	.....	.....	6.08	+2.36	1.44	14-15	0	13	11	11	9	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	6	62.2	.....	89	25	30	9	5.71	.....	1.49	14	0	12	6	18	7	s.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	33	64.2	+2.2	87	25	38	9	7.12	+3.93	1.93	26-27	0	14	13	11	7	sw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	3	.....	.....	.....	.....	.....	.....	7.29	.....	2.53	12	0	15	14	5	12	se.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	45	.....	.....	.....	.....	.....	.....	6.15	+2.74	1.83	27	0	16	.....	.....	.....	.....	L. S. Depue.
Elizabeth.....	Union.....	34	67	61.6	-0.3	89	30	32	9	6.42	+2.69	1.97	14-15	0	14	15	3	13	w.	Union County Park Comm.
Flemington, 2 mi. N.E.....	Hunterdon.....	140	60†	62.2	+0.6	88	25	31	9	6.46	+2.79	1.49	18	0	12	15	3	13	w.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	4†	61.6	-0.4	87	25†	36	9	5.79	+2.19	1.43	26-27	0	12	18	5	8	sw.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	40†	62.0	-1.4	89	25	34	4	6.63	+2.83	2.02	27-28	0	9	8	8	15	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	110	53	61.2	+0.1	86	25	36	9	5.92	+2.20	1.60	14-15	0	15	9	11	11	w.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	57	62.1	+0.1	89	25	35	10	5.78	+2.53	1.19	17-18	0	13	9	14	8	s.	Edward Entwistle.
Jersey City.....	Hudson.....	81	48	59.4	-2.4	86	30	42	8	7.52	+4.17	1.68	12	0	14	13	6	12	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	42	61.6	+0.8	90	25	34	9	5.61	+2.28	1.35	15	0	13	5	13	13	sw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	59	61.2	0.0	86	25†	33	9	6.64	+2.74	1.11	17-18	0	11	9	6	16	sw.	Mabel Wollaston.
Layton††, 3 miles NW.....	Sussex.....	480	45	57.2	-0.7	86	25	26	9	7.49	+4.19	2.91	26-27	0	16	14	1	16	s.	A. M. Depue.
Little Falls.....	Passaic.....	157	43	60.2	-0.4	87	25†	32	9	11.10	+7.29	2.61	17-18	0	15	10	8	13	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	38	60.2	+0.3	87	31	38	9	4.68	+1.44	1.42	14-15	0	13	9	7	15	sw.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	16	58.0	-1.0	86	26	28	9	5.55	+1.85	1.00	27	0	12	16	7	8	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	5	.....	.....	.....	.....	.....	.....	6.26	.....	1.81	14-15	0	16	10	11	10	sw.	David Griscom.
Mays Landing.....	Atlantic.....	50	2	.....	.....	.....	.....	.....	.....	5.88	.....	2.69	26-27	0	13	11	5	15	sw.	Elmer Earle.
Millville.....	Cumberland.....	60	6	.....	.....	.....	.....	.....	.....	5.87	.....	2.06	27	0	14	11	5	15	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	83	61.5	+0.1	85	25	38	9†	5.50	+1.72	1.71	14-15	0	16	11	8	12	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	5	60.0	.....	85	30†	29	9	9.20	.....	4.17	12	0	15	13	5	13	.....	James C. Long.
Newark.....	Essex.....	10	92	61.4	.....	88	25	37	9	7.28	+3.36	2.31	27	0	13	4	10	17	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	92	61.0	+0.3	85	25	35	9	5.44	+1.65	1.55	14-15	0	13	15	6	10	se.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	28	.....	.....	.....	.....	.....	.....	10.07	+6.71	2.58	26-27	0	14	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	63	58.8	-0.5	84	25	35	9	6.00	+2.31	2.09	26-27	0	15	15	2	14	sw.	Irving J. Kern.
Orange††.....	Essex.....	140	6	.....	.....	.....	.....	.....	.....	8.93	.....	2.72	26-27	0	15	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	75	60.4	-1.2	87	25	34	9	10.42	+6.26	2.68	12	0	14	8	11	12	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	17	63.4	-0.3	88	25	34	9	5.80	+2.65	1.81	14-15	0	15	10	12	9	w.	Charles A. Doehrlert.
Phillipsburg.....	Warren.....	182	63†	58.4	-2.8	85	25	30	9	6.88	+3.29	1.55	26-27	0	18	8	13	10	.....	Town Engineer.
Plainfield.....	Union.....	120	58	60.0	-0.4	86	31	33	9	6.40	+2.59	1.75	14-15	0	14	7	11	13	sw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	5	.....	.....	.....	.....	.....	.....	5.20	.....	1.95	16-17	0	5	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	48	61.6	+2.0	85	30	33	10	6.86	+3.83	2.17	14-15	.....	15	7	11	13	s.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	7	.....	.....	.....	.....	.....	.....	5.37	.....	1.43	27	0	9	11	7	13	s.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	29	60.2	-0.1	88	31	34	9	9.20	+5.65	2.77	26-27	0	15	11	7	13	se.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	23	57.6	-2.3	91	26	26	9	4.34	+0.80	1.29	14-15	.....	11	14	11	6	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	2	59.8	.....	85	25†	35	9	10.02	.....	3.20	26-27	0	16	10	7	14	.....	Harold Scott.
Sandy Hook.....	Monmouth.....	15	48	60.4	+2.0	83	31	44	8†	6.29	+2.57	1.54	14-15	0	15	3	14	14	sw.	U. S. Coast Guard.
Somerville, 2 mi. N.....	Somerset.....	385	63	.....	.....	.....	.....	.....	.....	4.55	+0.90	1.55	13	0	9	11	12	8	w.	Joseph Starkman.
Sussex.....	Sussex.....	450	51	58.8	-1.0	86	25	29	9	7.30	+3.69	2.60	26-27	0	17	9	5	17	sw.	Marshall Hunt.
Toms River.....	Ocean.....	33	25	.....	.....	.....	.....	.....	.....	7.35	+3.26	1.90	27	0	13	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	74	62.4	+1.3	87	31	42	9	5.04	+1.96	1.42	14	0	14	5	9	17	s.	U. S. Weather Bureau.
Trenton No. 2.....	.....do.....	105	16	62.6	-0.2	88	25	40	9	5.76	+2.23	1.39	14-15	0	13	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	53	61.3	+1.1	84	31	37	10	5.55	+2.31	2.04	15	0	14	13	7	11	sw.	John H. Brown.
Vineland.....	Cumberland.....	110	66	.....	.....	.....	.....	.....	.....	6.51	+2.97	1.99	27	0	12	16	7	8	sw.	Robert Jones.
Westfield.....	Union.....	145	7	.....	.....	.....	.....	.....	.....	6.73	.....	1.78	14	0	11	11	6	14	sw.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	28	.....	.....	.....	.....	.....	.....	8.63	+5.22	3.12	26-27	0	13	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	.....	10	76	61.0	+0.4	85	30	43	8	5.85	+2.61	1.64	27	0	13	5	10	16	w.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	76	64.0	+1.1	86	25	44	4	5.85	+2.59	1.44	14-15	0	14	6	8	17	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	60.8	+0.2	91	26	26	9	6.63	+3.01	4.17	12	0	14	11	8	12	sw.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. ‡ Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for May 1946

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast	.01			.17	.09	T.	.16	T.			T.	.93	.11	.81	.12	.06		.31	.07		.40							1.33	.17	T.		4.74	
Barnegat City ¹	do.				.16	.10		.07				T.	.03	.59	.08	1.28	*	.01		.32		.40							1.86	.27			5.17	
Bass River	do.						.27	T.	.14			T.	.04	.85	*	*	*	*	*	3.11				.20					T.	*	1.70		6.31	
Belleplain	Tuckahoe	.43			.24	.10		.24					.07	1.26	.04	1.97	.06			.19		.40							2.25	.07	.20		7.52	
Belmar ²	Coast		T.		.05	.18		.09	.01			.02	.89	.02	1.16	.03	.33	.09	.10	T.	.17	T.							1.14	.12	T.		4.40	
Belvidere	Delaware				.06	.16		.05				.38	.73		.05	.86	T.	.23	1.09	.72	T.	.25							.99	1.70	.12		7.39	
Berlin	Mullica				.21	T.		.16				.06	.55		1.70		.06	.60	.20		.26								.28	1.10	.10		5.28	
Boonton ³	Passaic					.12	T.	T.	.19			T.	.21	1.82		1.22	.02	.18	1.37	.20		.04	.13						.09	1.06	1.93	.02	8.60	
Bridgeton	Delaware	.19			.27	.11						T.	.85	1.21	.65	1.18	.13	.08	.65	.29	.02	.20							T.	.79	1.23	.07	7.92	
Brooklawn	do.				.11	T.						T.	.80			1.45		.44		.29	.15								1.24	.73		5.21		
Burlington	do.				.24				.20			.12	.79	.35		.54	.19	.58	.15	.45	.43								.72	.20		4.96		
Canoe Brook ³	Passaic					.19	.01		.09			.01	.42	.89		1.52		.32	.85	.08		.12	.20						.93	.70		6.33		
Canton	Delaware	.09			.10	.22			.32			T.	T.	.75		1.56	.01	.03	.12	1.10		T.	.41						.82	1.05	.26	T.	6.84	
Cape May ²	Coast																																	
Charlotteburg	Passaic							.17	.38			.06	.35	.74		.71	.05	.04	1.61	.19	.35								.08	2.33	.18	.02	7.48	
Chatham ³	do.				.11	T.			.10			.01	.42	.99		1.44		.32	.94	.09	.13	.19							.65	.69		T.	6.08	
Chatsworth	Coast				*	.18			.22			.07	1.26	1.49			*	*	.43	.10	.35	T.							T.	1.47	.14		5.71	
Clayton	Delaware	T.			.12	.01		.29				.11	.29	.46	.65	.92	.03	T.	.81	.36	.51								.02	1.91	.74	T.	7.12	
Clinton	Raritan				.06	.09		.07				.11	2.53		.12	.59	.02	1.10	.48	.48	.09								.05	1.48	.02		7.29	
Culvers Lake	do.				.10	.46	.02					.10	.46	.02		.78	.03	.01	.55	.54	.19								1.10	1.83	.21	.05	6.15	
Elizabeth	Coast				T.	.19		.07				.01	.75	.22		1.97	.05	.35	.51	.12	.42									1.70	.03	.03	6.42	
Essex Fells	Passaic		T.		.15			.22				.32		1.56		1.16	.38	1.45	.11	.08	.32								T.	1.05	1.35		8.15	
Flemington	Raritan				.07	.16		T.				.06	1.12		T.	1.02	.08	.44	1.49	.46	.51								T.	1.02	.03		6.46	
Freehold	do.				.02	.24		.07				.45	.35		1.33	T.	.73	.37	.05	.54	.54								T.	1.43	.21		5.79	
Hammononton	Mullica				.35							.98				1.55		.55	.24	.21										.65	2.02	.13	6.68	
Hightstown	Raritan				.05	.18	T.		.08			.03	.56	.38	T.	1.60	.01	.80	.21	.13	T.	.80							.02	.94	.13	T.	5.92	
Indian Mills	Mullica				.09	.12	T.		.23			T.	.43	.47	.70	.95	T.	1.11	.08	.02	.47								.93	.18	T.		5.78	
Jersey City ²	Coast			.01		.10	.05	.10				.02	1.68		1.45	.02	.55	1.47	.12	T.	.27								.03	1.65			7.52	
Lakewood	Metedeconk				.34			.12				T.	.50	.73		1.35	.05	.03	.25	.05	.35								.23	1.30	.31		5.61	
Lambertville	Delaware				T.	.15		.06				.05	1.01	T.	T.	1.25	T.	1.00	1.41	.42									.09	1.15	.05		6.64	
Layton	do.				T.	.12	.02	.06	.19			.13	.37		.12	.68	.06		.44	.37	.39								1.20	2.91	.41	.02	7.49	
Little Falls ³	Passaic				.19	.01		.23				.01	.43	2.43		1.13		.30	2.61	.12	.04	.27							.05	1.77	1.46		11.10	
Long Branch ²	Coast				.07	.18						.01	.60	.03	1.41	.01	.65	.30	.08		.18								T.	1.11	.05		4.68	
Long Valley ³	Raritan				.12			.18					.34	.95		.71		.10	.74	.45		.15							.16	.65	1.00		5.55	
Manville	do.				T.	.04	T.	T.				.22	.73		1.50		.43	.63	.14		T.									.73			4.42	
Marlton	Delaware				.09	.15		.07				.03	.59	.30	.40	1.41	.03	.09	.27	.38	.82								.06	1.11	.46		6.26	
Mays Landing	Gt. Egg Harbor	T.			.07	.14		.21				T.	.03	1.01	.75	.47	T.	T.	T.	.10	.22	.13								.26	.05	.04	.06	5.88
Midland Park	Passaic				.02	.22	.03	.35	.04			.03	1.54		.69	.34	.12	1.34	.19	.03	.28									.34	3.05	.02		8.63
Millville ²	Maurice	.08			.19	.06		.30					.61	.08	1.92		.03	.11	.24	.01	.07									.26	.09		6.05	
Moorestown ³	Delaware				.01	.03		.08				.04	.47	.43		1.71	.01	.11	.20	.38	.03	.57								.45	.75	.23	T.	5.50
Morris Plains	Passaic				.02	.13		T.	.15	T.		.02	1.47	.03		1.06	.08	.20	.96	.17	.32									.09	1.63	.17		9.20
Newark ¹	Coast				T.	.19		.04	.02	T.		.01	1.43		1.96	.02	.27	.54	.09	T.	T.	.39								.01	2.31	T.	T.	7.28
New Brunswick	Raritan				.01	.19		T.		T.		T.	.63	.73		1.55	.01	.63	.41	.09	.26									.89	.01	.03		5.44
New Milford ²	Hackensack				.17	.23	.04		.01			.02	1.73		1.15	.16	.23	2.32	.05	.83										.55	2.58			10.07
Newton	Delaware				.02	.11		.21	T.			.12	.48		.06	.49	T.	.04	.85	.60	T.	.10								.58	2.09	.15		6.00
Orange ²	Passaic				.03	.17		.08	.01			.02	1.46		1.58	.01	.33	1.57	.11	.01	.54									.29	2.72			8.93
Paterson ²	do.				.02	.12		.19	.03	T.		.03	2.68		1.08	.03	.26	2.64	.12	T.	.37									.29	2.56	T.	T.	10.42
Pemberton	Delaware				.11	.13		.02	.09			.04	.62	.25		1.81	T.	.03	.72	.19	T.	.52								.20	.71	.36	T.	5.80
Phillipsburg	do.				.12	.15	T.	.17	.08	T.		.24	.88	.08	.91	.09	T.	.83	1.10	.14	T.	.20							.11	.08	1.55	.12	.03	6.88
Plainfield	Raritan				.01	.22	T.	T.	.04			.01	.96	.05	.20	1.75	.02	1.08	.41	.10	.52									T.	1.03	T.	T.	6.40
Plainsboro	do.				.10							*	*	1.15	*	*	1.95	T.		.85										*	*	1.15	5.20	
Pleasantville ³	Coast		.02		.30			.17					.03	.75		2.17	.09	.01	.16	.20	.05	.31								.85	1.73	.02		6.86
Rahway ²	Rahway				.11																													

Daily Temperatures for May 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Atlantic City*.....	Maximum...	63	67	56	48	67	76	64	60	70	72	62	64	72	60	66	65	66	63	77	64	67	72	72	66	70	69	68	62	55	85	73	66.5	
	Minimum...	49	54	47	46	48	55	48	47	50	49	55	56	55	53	57	56	59	56	57	59	61	55	56	57	58	62	61	49	49	50	64	54.1	
Barnegat City†.....	Maximum...	62	65	65	50	64	75	74	62	72	69	66	65	68	71	65	60	66	66	65	64	66	69	71	65	70	71	68	60	56	82	80	66.8	
	Minimum...	44	53	46	45	45	48	47	45	44	46	52	52	48	52	53	57	54	52	53	58	55	50	49	56	56	56	50	47	47	65	50.9		
Belleplain.....	Maximum...	72	68	62	64	65	77	74	72	70	72	79	78	74	71	71	81	82	80	77	77	75	75	78	78	82	80	86	75	56	82	86	74.8	
	Minimum...	48	53	47	42	44	47	42	40	34	63	52	61	55	37	56	56	65	71	67	50	62	48	42	39	53	51	55	54	45	41	66	50.8	
Belvidere.....	Maximum...	78	80	66	60	66	72	62	60	69	75	72	73	79	72	76	67	78	59	78	79	75	75	82	87	90	86	70	64	73	88	87	74.1	
	Minimum...	44	44	40	42	44	44	42	43	32	38	52	54	44	44	53	58	58	51	52	51	63	49	45	50	56	63	61	53	48	44	27	49.0	
Boonton/......	Maximum...	75	73	61	50	67	70	55	57	67	70	72	68	73	68	78	60	79	56	73	73	72	73	78	76	84	82	68	59	70	84	32	70.1	
	Minimum...	38	44	38	38	41	39	39	40	31	36	45	44	43	41	44	55	56	53	49	48	55	53	41	42	46	58	55	56	47	42	55	45.5	
Bridgeton.....	Maximum...	72	75	67	54	68	76	70	60	71	73	80	80	71	66	67	82	82	78	76	80	74	73	79	79	88	85	75	71	58	82	75	74.0	
	Minimum...	50	52	47	43	44	48	51	43	40	40	54	63	54	46	55	59	64	62	60	55	65	54	48	46	60	66	65	53	47	46	58	52.8	
Burlington.....	Maximum...	76	75	74	78	65	72	76	65	72	74	80	80	77	70	78	80	82	80	76	83	75	75	80	80	90	87	78	73	64	85	85	76.9	
	Minimum...	45	51	46	48	48	57	53	56	60	60	64	64	58	48	68	70	68	55	55	74	68	54	47	45	59	60	68	55	48	43	59	56.6	
Canoe Brook /.....	Maximum...	72	77	62	50	67	74	61	60	71	72	77	72	74	67	79	60	82	56	77	72	75	75	80	79	88	86	68	60	69	87	87	72.1	
	Minimum...	40	36	31	36	43	37	38	41	27	30	39	58	41	39	51	57	55	53	49	47	58	45	40	42	53	59	63	57	47	39	54	45.3	
Cape May*.....	Maximum...	74	73	70	61	62	71	67	55	68	67	67	69	70	66	78	74	77	66	75	74	11	70	76	75	84	83	72	64	68	85	83	71.5	
	Minimum...	41	42	36	35	41	40	39	40	27	42	45	53	43	35	50	54	54	50	48	43	45	45	34	36	48	60	63	52	43	55	51	44.8	
Chatsworth.....	Maximum...	74	77	69	53	65	76	70	62	71	71	77	80	73	70	73	78	84	80	77	79	72	72	80	77	89	87	81	68	58	83	87	74.6	
	Minimum...	47	53	46	38	45	45	44	42	30	54	52	55	50	39	54	58	64	54	54	50	62	51	40	38	57	63	64	52	47	42	51	49.8	
Clayton.....	Maximum...	73	67	65	53	67	75	69	60	71	74	80	79	73	68	67	82	83	81	78	82	75	74	79	78	87	85	73	68	58	85	86	74.0	
	Minimum...	51	55	49	43	49	56	49	47	38	53	55	63	62	49	54	62	64	57	56	61	66	54	54	61	65	67	53	47	48	60	54.5		
Elizabeth.....	Maximum...	75	79	72	62	67	75	68	63	62	75	79	74	76	70	80	74	80	70	75	74	78	76	81	77	88	88	79	65	67	89	88	75.0	
	Minimum...	68	43	35	40	45	42	42	40	32	36	48	62	45	42	52	55	55	51	48	50	57	47	44	44	53	61	62	53	46	42	58	48.3	
Flemington.....	Maximum...	78	79	71	61	71	75	67	61	73	77	75	78	73	77	67	83	67	79	74	73	78	78	73	78	82	81	88	85	78	68	69	88	75.5
	Minimum...	43	44	41	40	44	45	42	44	31	37	52	61	48	43	52	56	55	54	51	50	59	51	45	44	57	62	64	55	48	44	57	49.0	
Freehold.....	Maximum...	73	73	71	55	65	67	60	71	71	81	78	72	68	74	68	82	77	75	73	73	74	78	76	87	87	77	65	60	87	85	73.4		
	Minimum...	45	49	44	40	44	48	46	41	36	40	49	62	48	48	51	53	55	52	58	50	58	51	48	43	60	63	63	51	46	44	60	49.9	
Hammononton.....	Maximum...	75	78	68	58	76	78	72	61	71	73	81	81	75	78	72	80	82	74	72	79	75	75	76	79	89	85	78	68	69	83	85	75.2	
	Minimum...	45	52	46	34	37	47	46	40	37	47	37	60	50	39	55	57	59	53	54	49	60	47	52	43	64	55	54	51	52	42	52	48.9	
Hightstown.....	Maximum...	74	73	70	52	64	74	67	60	71	70	79	79	75	70	74	67	81	67	74	77	76	73	79	78	86	84	74	65	60	82	85	72.9	
	Minimum...	45	48	43	40	46	46	46	42	36	38	50	62	48	44	52	58	56	52	51	51	61	53	45	43	56	63	51	46	44	57	49.5		
Indian Mills.....	Maximum...	75	77	63	49	66	75	67	60	70	73	82	80	73	69	70	81	84	76	76	82	74	74	81	78	89	83	73	66	58	84	86	74.0	
	Minimum...	48	54	46	41	44	48	45	43	36	35	54	63	51	40	54	60	63	55	54	51	63	48	41	36	58	63	64	51	47	43	58	50.2	
Jersey City*.....	Maximum...	70	74	61	48	60	70	58	56	67	67	70	68	70	61	72	59	71	55	69	66	70	70	72	70	79	78	69	62	64	86	83	67.6	
	Minimum...	50	50	41	45	45	50	45	42	44	46	54	54	49	52	52	54	55	49	49	54	56	54	50	51	58	66	62	49	47	48	64	51.2	
Lakewood.....	Maximum...	70	74	67	49	64	77	69	61	71	73	80	81	73	67	76	67	83	77	77	74	72	75	78	76	90	84	76	66	58	85	88	73.5	
	Minimum...	47	53	45	40	45	49	44	44	34	37	51	62	50	39	54	55	57	52	52	51	59	51	44	40	56	65	52	45	45	60	49.8		
Lambertville.....	Maximum...	76	71	70	52	65	73	68	59	70	75	78	72	74	75	70	65	63	75	80	75	73	80	78	86	86	86	86	67	64	84	84	73.0	
	Minimum...	42	45	39	40	49	46	42	43	33	35	51	60	48	44	54	57	54	54	52	48	63	52	49	43	58	62	62	55	48	44	55	49.3	
Layton.....	Maximum...	77	72	64	53	67	70	59	58	68	70	70	67	72	67	78	75	73	58	78	74	64	72	79	73	86	80	66	63	60	84	84	70.7	
	Minimum...	39	33	28	35	40	41	34	39	26	29	46	42	37	36	52	54	55	53	51	43	59	44	40	38	48	63	60	50	45	39	54	43.6	
Little Falls /.....	Maximum...	75	75	61	57	68	73	56	60	70	73	75	65	74	72	80	63	81	58	77	73	76	76	82	79	87	85	67	59	67	87	85	72.2	
	Minimum...	44	44	40	40	44	42	40	41	32	42	50	54	45	43	52	57	55	53	49	50	58	48	44	54	62	64	56	47	43	57	48.2		
Long Branch*.....	Maximum...	68	72	55	49	66	75	61	60	71	70	76	76	71	65	73	59	77	55	70	68	72	74	75	70	82	83	66	62	49	85	87	69.4	
	Minimum...	47	50	45	45	44	52	48	44	38	44	54	57	51	45	54	54	55	51	50	55	59	55	49	44	59	65	60	49	48	45	63	50.9	
Long Valley /.....	Maximum...	75	75	62	48	66	72	58	57	68	71	70	68	72	70	76	61	78	56	74	73	74	73	77	77	85	86	67	58	70	85	84	70.5	
	Minimum...	38	43	37	38	42	40	39	40	28	35	41	59	38	39	51	53	55	52	49	47	58	45	47	58	51	59	60	55	45	41	53	45.4	
Moorestown*.....	Maximum...	75	74	60	49	66	75	66	59	69	72	79	77	71	69	70	78	81	62	74	80	74	72	79	77	85	80	70	63	59	82	84	72.0	
	Minimum...	46	53																															

51.05
NNJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. LI.

JUNE 1946.

No. 6

GENERAL SUMMARY.

This was the coolest and also the wettest June since 1938. There were no periods of extreme heat or unseasonably cold weather, but there were several cloudy and cool days when temperatures remained much below normal. No frost was reported, though a reading of 33° was registered at Charlotteburg on the 6th. Readings of 90° or higher were registered on the 8th, 24th, 25th, 26th, and 27th, the highest being 99° at Elizabeth on the 27th.

The wet weather of May continued into June. An unusually heavy rainfall occurred on the 1st and 2d, with frequent rains through the month, though rainfall was light during the last ten days in some localities. The monthly average was 137 percent of normal. Sunshine was somewhat less than normal but was generally adequate and with the copious rains, crops made excellent growth. Hay making was hindered by rains and some hay lost or damaged. There were numerous thunderstorms but no destructive windstorms. The rains of the 1st and 2d caused a rise of several feet in the Delaware River and slight flooding in smaller streams.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 41 stations, was 68.1°, which was 1.0° below normal. The highest temperature was 99° at Elizabeth on the 27th, and the lowest, 33°, at Charlotteburg on the 6th. The highest monthly mean temperature was 72.0° at Burlington and Flemington, and the lowest, 62.8° at Runyon. The temperature departure from the normal for the year 1946, to date, for the State is +2.2°.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 59 stations, was 5.25 inches, which was 1.42 inches above normal. The greatest monthly precipitation was 7.94 inches at Canoe Brook, and the least, 2.52 inches at Bridge-ton. The greatest amount of precipitation in any 24 consecutive hours was 4.85 inches at Lambertville on the 1st-2d. The average for the Highlands was 4.08 inches; for the Red Sandstone Plain, 5.66 inches; for the Southern Interior, 5.24 inches; and for the Sea Coast, 4.88 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -3.16 inches; Red Sandstone Plain, -1.10 inches; Southern Interior, -1.30 inches; Sea Coast, -2.90 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 1, 2, 20, 30.

THUNDERSTORMS: 1, 4, 5, 8, 9, 11, 12, 13, 14, 18, 28, 29, 30.

HAIL: 4, 5, 11, 12, 28, 29.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.41	10	29.61	2	14.6	42	n.	2	79	71	78	54	63
Long Branch.....	30.40	10	29.68	18	11.8	34	n.w.	11	78	58	60	57	69
Newark.....	30.39	10	29.70	18	.....	37	sw.	28	73	52	66	.....	45
Trenton.	30.41	10	29.74	2	8.7	26	n.	11	77	53	64	57	48

COMPARATIVE DATA FOR JUNE.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	68.7	97	39	1.79	0	.....	.....	.....	.....
1886.....	67.1	91	41	3.38	0	.....	.....	.....	.....
1887.....	68.2	97	42	6.77	0	10	.....	.....	.....
1888.....	70.8	99	39	2.59	0	6	.....	.....	.....
1889.....	69.9	91	40	3.73	0	10	.....	.....	.....
1890.....	70.7	95	42	3.59	0	11	13	.....	6
1891.....	69.7	102	38	2.92	0	5	14	.....	7
1892.....	72.4	98	44	3.85	0	11	10	12	8
1893.....	69.7	103	40	2.95	0	8	10	11	9
1894.....	70.6	102	35	2.28	0	9	14	11	5
1895.....	71.7	103	39	3.24	0	10	11	11	8
1896.....	68.1	96	37	5.46	0	10	12	10	7
1897.....	66.1	95	35	3.38	0	10	10	13	7
1898.....	70.1	100	38	2.10	0	8	14	12	4
1899.....	72.3	103	38	2.50	0	7	15	10	5
1900.....	70.4	97	39	3.08	0	8	12	12	6
1901.....	70.0	103	35	1.57	0	5	18	8	4
1902.....	67.5	99	37	6.57	0	11	14	11	5
1903.....	64.0	92	37	7.68	0	15	6	10	14
1904.....	68.6	100	34	3.13	0	12	13	10	7
1905.....	68.3	96	35	3.43	0	10	11	12	7
1906.....	70.4	98	38	4.48	0	12	11	11	8
1907.....	64.7	96	31	4.41	0	10	12	10	8
1908.....	69.9	99	35	2.32	0	4	16	12	2
1909.....	70.0	99	36	3.26	0	12	9	10	11
1910.....	66.9	95	34	5.17	0	13	9	10	11
1911.....	68.9	97	40	5.36	0	14	9	12	9
1912.....	68.0	98	33	1.94	0	8	9	12	9
1913.....	69.1	98	31	1.80	0	5	19	8	3
1914.....	68.5	98	35	2.66	0	7	14	9	7
1915.....	67.0	95	37	3.12	0	11	13	10	7
1916.....	64.7	87	36	4.20	0	13	10	9	11
1917.....	68.9	95	40	4.27	0	12	13	10	7
1918.....	66.3	96	32	3.43	0	8	15	9	6
1919.....	69.5	99	38	3.16	0	8	16	7	7
1920.....	68.4	98	38	6.18	0	12	13	9	8
1921.....	70.4	100	33	3.23	0	8	18	7	5
1922.....	71.1	95	39	6.31	0	15	12	9	9
1923.....	72.5	106	37	2.08	0	7	18	8	4
1924.....	66.8	95	30	4.20	0	13	11	11	8
1925.....	73.6	103	36	3.10	0	9	17	9	4
1926.....	64.9	97	31	2.60	0	11	12	9	9
1927.....	65.4	97	31	3.16	0	10	15	9	6
1928.....	66.6	93	36	6.75	0	15	10	9	11
1929.....	69.5	98	33	3.11	0	9	15	9	6
1930.....	70.8	98	30	4.17	0	8	16	8	6
1931.....	69.3	101	40	4.84	0	10	16	7	7
1932.....	69.3	98	30	3.68	0	10	13	8	9
1933.....	71.0	105	32	2.79	0	9	17	8	5
1934.....	72.6	103	38	3.68	0	7	16	9	5
1935.....	68.9	96	38	4.64	0	13	14	8	8
1936.....	69.1	99	38	4.93	0	12	12	7	11
1937.....	70.5	99	41	4.66	0	13	11	9	10
1938.....	67.2	96	29	7.79	0	13	11	9	10
1939.....	70.8	99	35	3.55	0	10	12	9	9
1940.....	68.6	95	32	3.28	0	10	12	9	9
1941.....	69.4	98	37	5.09	0	9	15	7	8
1942.....	69.8	96	41	3.11	0	11	11	9	10
1943.....	74.2	102	43	3.24	0	9	17	6	7
1944.....	70.4	100	33	4.08	0	10	12	10	8
1945.....	69.9	100	30	4.30	0	13	11	10	9
1946.....	68.1	99	33	5.25	0	11	12	8	10
Period.....	69.1	106	29	3.83	0	10	13	10	7

Climatological Data for June 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	73	66.4	-0.2	91	8	49	3	3.41	+0.37	1.07	11-12	0	11	6	9	15	s.	U. S. Weather Bureau.
Barnegat City.....	Ocean.....	36	7																	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	52	70.5	+1.1	91	25	43	5†	5.14	+1.95	1.67	30	0	11	13	6	11	sw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	5							5.94		1.50	2	0	13					City Water Dept.
Belvidere.....	Warren.....	289	54	69.0	-0.6	96	25	41	16	4.98	+0.66	2.35	1-2	0	10	11	5	14	sw.	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	5							6.23		3.00	11	0	11	13	8	9	sw.	Samuel H. McCulley.
Boonton.....	Morris.....	280	56§	64.7	-3.1	91	25	40	7	3.70	-0.10	1.20	11-12	0	8	20	0	10	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	63	70.6	-1.6	93	26	47	5	2.52	-1.14	0.71	2	0	10	17	4	9	se.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	5							6.49		2.70	1-2	0	8					C. D. Scott.
Burlington.....	Burlington.....	12	60§	72.0	+0.6	95	25	46	6	5.85	+1.83	2.80	1-2	0	8	14	10	6	w.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	16	67.0	-0.8	93	27	38	3	7.94	+3.60	3.55	1-2		13	16	7	7	w.	N. J. Dept. of Conservation.
Cape May.....	Cape May.....	17	58																	Naval Air Station.
Charlotteburg††.....	Passaic.....	760	54	65.4	-0.3	89	25	33	6	3.78	-0.58	2.06	1-2	0	9	9	0	21	w.	Newark Water Dept.
Chatham.....	Morris.....	185	42							7.49	+3.31	1.93	1-2	0	13					Edward P. Molitor.
Chatsworth.....	Burlington.....	90	6	69.2		93	26	42	10	5.31		2.25	11-12	0	8	11	10	9	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	33	71.0	+1.0	92	25	47	16	4.71	+0.99	1.81	11-12	0	10	14	10	6	sw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	3							5.43		3.72	1-2	0	13	11	8	11	sw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	45							2.76	-1.98	1.95	1-2	0	4					L. S. Depue.
Elizabeth.....	Union.....	34	67	69.4	+1.2	99	27	42	7	6.37	+2.61	3.90	1-2	0	14	14	3	13	ne.	Union County Park Comm.
Flemington, 2 mi. NE.....	Hunterdon.....	140	60§	72.0	+1.8	95	24	45	3†	7.01	+3.07	3.99	1-2	0	14	15	7	8	w.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	42§	68.2	-2.5	91	26	42	3	7.43	+3.62	3.40	1-2	0	13	19	4	7	sw.	Moreau Plant Co.
Hammononton.....	Atlantic.....	95	40§	68.0	-3.8	92	8	40	10	6.07	+2.22	1.89	11-12	0	8	13	2	15	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	110	53	67.6	-1.7	91	27	43	8	7.41	+3.41	3.86	1-2	0	15	10	14	6	sw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	57	67.8	-2.4	92	26	40	10	6.07	+1.85	2.66	11-12	0	12	11	12	7	sw.	Edward Entwistle.
Jersey City.....	Hudson.....	81	48	67.1	-3.8	89	26	46	3	4.98	+1.29	3.42	1-2	0	9	13	6	11	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	42	69.2	+0.1	93	26†	42	3	5.85	+1.76	2.36	1-2	0	12	8	14	8	sw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	59	67.4	-2.3	91	26†	44	6†	6.75	+2.67	4.85	1-2	0	9	8	2	20	sw.	Mabel Wollaston.
Layton††, 3 miles NW.....	Sussex.....	480	45	65.4	-0.9	93	25	35	10	2.89	-1.38	1.51	1-2	0	9	15	6	9	n.	A. M. Depue.
Little Falls.....	Passaic.....	157	43	68.4	-1.0	91	25†	42	3	4.73	+0.56	2.14	1-2	0	13	10	11	9	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	38	67.9	-0.2	93	26	43	3†	5.43	+1.53	3.49	1-2	0	12	10	8	12	sw.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	16	65.9	-1.7	92	25	39	6	6.88	+2.33	2.60	28-29	0	12	12	14	4	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	5							6.04		3.13	11-12	0	10	11	9	10	sw.	David Griscom.
Mays Landing.....	Atlantic.....	50	2							3.25		1.07	11-12	0	12	19	0	11	sw.	Elmer Earle.
Millville.....	Cumberland.....	60	6							3.47		1.06	30	0	9					Paul Ritchie.
Moorestown.....	Burlington.....	62	83	66.8	-3.5	92	25	46	3†	6.21	+2.44	2.64	1-2	0	12					Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	5	67.2		90	25	39	6	4.85		2.84	1-2	0	10	18	4	8		James C. Long.
Newark.....	Essex.....	10	92	69.4	-0.5	95	26	45	3	5.25	+1.36	3.38	1-2	0	13	7	9	14	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	92	68.8	-0.6	93	24	44	3	5.06	+1.26	3.35	1-2	0	12	13	4	8	sw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	28							5.33	+1.40	2.58	2	0	14					Hackensack Water Co.
Newton.....	Sussex.....	769	63	66.2	-1.8	91	25	40	3	3.11	-1.21	1.70	1-2	0	9	8	11	11	sw.	Irving J. Kern.
Orange††.....	Essex.....	140	6							5.75		3.11	1-2	0	12					County Engineer.
Paterson.....	Passaic.....	95	75	68.4	-2.7	93	26†	43	3	6.82	+2.65	2.46	1-2	0	11	12	9	9	sw.	J. W. Cook.
Pemberton.....	Burlington.....	55	17	69.6	-2.4	92	26	44	3†	7.55	+2.92	3.07	28-29	0	12	13	9	8	sw.	Charles A. Doeblert.
Phillipsburg.....	Warren.....	182	63§	66.2	-3.3	91	25†	41	6	5.01	+1.12	2.37	1-2	0	10	8	12	10	sw.	Town Engineer.
Plainfield.....	Union.....	120	58	68.2	-0.9	91	8†	41	3	6.74	+2.58	3.38	1-2	0	15	8	12	10	sw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	5							6.67		3.65	1-2	0	6					Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	48	67.6	-1.4	92	8	44	3†	3.57	+0.11	1.41	11-12	0	12					N. J. Dept. of Conservation.
Rahway.....	Union.....	20	7							5.32		3.45	1-2	0	13	14	7	9	sw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	29	68.1	-0.9	94	25	40	3	4.99	+0.85	2.99	1-2	0	11	9	15	6	sw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	23	62.8	-6.1	90	26†	35	5†	5.20	+1.18	3.47	1-2		11	14	13	3	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	2	68.4		91	26†	42	3	6.08		3.03	1-2	0	14	12	10	8		Harold Scott.
Sandy Hook.....	Monmouth.....	15	48	69.0	+1.2	93	27	48	2	4.96	+1.18	3.83	1-2	0	13	4	14	12	w.	U. S. Coast Guard.
Somerville, 2 mi. N.....	Somerset.....	385	63							3.99	+0.15	3.50	1-2	0	9	8	11	11	w.	Joseph Starkman.
Sussex.....	Sussex.....	450	51	67.8	+0.1	93	25	38	6	3.26	-0.90	1.64	1-2	0	9	9	3	18	w.	Marshall Hunt.
Toms River.....	Ocean.....	33	25							5.01	+1.20	1.84	1-2	0	14					Robt. F. Snyder.
Trenton.....	Mercer.....	56	74	68.9	-0.6	91	27	49	2	6.03	+2.94	3.26	1-2	0	11	5	11	14	s.	U. S. Weather Bureau.
Trenton No. 2.....	do.....	105	16	69.3	-2.0	92	26	47	3	6.05	+1.33	3.64	1-2	0	13					Edward H. Ristow.
Tuckerton.....	Ocean.....	23	53	68.0	-1.2	90	8	44	10	2.93	-0.58	1.61	12	0	9	12	6	12	sw.	John H. Brown.
Vineland.....	Cumberland.....	110	66							3.85	+0.30	1.13	11-12	0	7	17	9	4	sw.	Robert Jones.
Westfield.....	Union.....	145	7							5.97		3.32	1-2	0	9	15	4	11	sw.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	28							4.05	+0.36	2.27	2	0	14					Hackensack Water Co.
New York, N. Y.....		10	76	68.5	-0.3	89	27	48	2	4.91	+1.58	3.53	1-2	0	13	8	12	10	sw.	U. S. Weather Bureau.
Philadelphia, Pa.....		10	76	69.8	-1.6	91	25	50	2	8.61	+5.37	4.28	1-2	0	13	8	7	15	sw.	U. S. Weather Bureau.
For the State.....				68.1	-1.0	99	27	33	6	5.25	+1.42	4.85	1-2	0	11	12	8	10	sw.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for June 1946

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast	T.	.62		.23	.02	T.		T.			.78	.29	T.	.60	T.			.56	.05	.19	.06	T.							T.	T.	.01	3.41
Barnegat City ⁴	do.																																
Bass River	do.																																
Belleplain	Tuckahoe		.56		.20	.42							.31			1.06			.13	.14	.40	.11	.14								T.	1.67	5.14
Belmar ²	Coast	1.42	1.50	T.	1.20	.04	.01						1.00	.35	.02	.21			.05		.12	.01								.01	T.		5.94
Belvidere	Delaware	T.	2.35		T.	T.	.04	.04					.73	.15	.19				.05		.06	T.								.85	.01	.55	4.98
Berlin	Mullica	.80	.70	.12	.10	.03	T.					3.00	T.		.80				.15	.15	.03	T.										.35	6.23
Boonton ³	Passaic	1.11		.02			T.	T	T				1.20	.08		.02			T.	.10			T.							1.11	.06		3.70
Bridgeton	Delaware	.71		.17			T.						.48		.20				T.	.03	.25	.04	.04							.08	.52		2.52
Brooklawn	do.	2.70		.09								2.27		.11					.24		.19	T.								.67	.22		6.49
Burlington	do.	2.80		.19								1.44	.08	.10	.06					1.00										.18			5.85
Canoe Brook ³	Passaic	2.17	1.38	.06	.26	.03						.80	.10	T.	.07				.03	.03	T.	.03								1.72	1.26		7.94
Canton	Delaware	.51	.22	.10	.01	T.						.56			.06				.01	.23	.02	.05								.09	.79		2.65
Cape May ^{2†}	Coast																																
Charlotteburg	Passaic	2.06		T.	.12			.02				1.04	.04	.02								T.	.03							.05		.40	3.78
Chatham ³	do.	1.93	1.29	.05	.25	.06						.79	.16	T.	.06				.04			T.	.02							1.50	1.30		7.49
Chatsworth	Coast	1.17		.17								2.25			.50						.21	.02								.76		.83	5.31
Clayton	Delaware	1.23		.14	T.	T.	T.					1.81		T.	.61					.21	.01	.40	.05							.01	.24		4.71
Clinton	Raritan	.24	.48		.03	.03	.02					.86	.19	.13					.05		.17		.01							.07	T.	.10	5.43
Culvers Lake	do.	T.	1.95									.72	.04	.05					T.	T.		T.											2.76
Elizabeth	Coast	T.	3.90		.07	.27	.05					1.00	.11	.02	T.				.28		.02	.01	.01							.17	.25	.21	6.37
Essex Fells	Passaic	1.51	1.49		.03	.21						.81	.17	T.																.63	T.		4.85
Flemington	Raritan	.17	.99		.02	.11	.02					1.43	.16	.18	.05						.30	T.	.02							.12	.03	.41	7.01
Freehold	do.	3.40		.10	.13	.02						1.38	.06	.02	.12					.16		.11								1.60	.05	.28	7.43
Hammonton	Mullica	1.27		.20	.11	T.						1.89		.46						.36	T.		.38									1.40	6.07
Hightstown	Raritan	.70	.16		.10	.04	.01					1.29	.09	.26	.10					.51	T.	.14	T.	.02						.89	.05	.05	7.41
Indian Mills	Mullica	.04	1.42		.15	.05	T.					2.66		.50	.23					.38	T.	.18	.04							.36	T.	.06	6.07
Jersey City ²	Coast	.22	.20		.34	T.	.08					.60	T.		.04					.15			.01							.34	T.		4.98
Lakewood	Metedeconk	2.36		.13	T.	.02						1.55	.02	.03	.48					.33		.20								.06	.52	.15	5.85
Lambertville	Delaware	17.4	.68			.21	.07					.80	.25	.20	T.					.07	T.									.30			6.75
Layton	do.	50.1	.51						.20			.21	.23	.07	.13					.02		.02											2.89
Little Falls ³	Passaic	2.14	.78		.04	.11	.04	.04				1.16	.14		.02					.01	.01			.02						.22			4.73
Long Branch ^{2†}	Coast	1.21	2.29		.24	.04						.95	.04	.05	.16	T.				.20	T.	.03	T.							T.	.15	.07	5.43
Long Valley ³	Raritan	1.50	1.25			.10	.05					.52	.20		.11					.23			.07	.05						2.60	.20		6.88
Manville	do.	.25	2.96		.02	.10	T.					.56	.14	.04						.18										T.	.02		4.27
Marlton	Delaware	1.77		.10	T.	T.						3.13		.02	.18					.18	T.	.12	.04							.36	T.	.14	6.04
Mays Landing	Gt. Egg Harbor	.77		.12	.23	.03	T.					1.07			.05					.21	.11	.32	.02	.12								.20	3.25
Midland Park	Passaic	.16	2.31		.03	.16	.03					.75	.23	.05	.02					.13			.02							.34		.24	4.47
Millville ^{2†}	Maurice	.74		.28								.69	.14		.24						.08	.15	.09									1.06	3.47
Moorestown ³	Delaware	2.64	.53		.03	.04	.09	.01				1.95	.20	.14	.14						T.	.13	T.	.05						.40	T.		6.21
Morris Plains	Passaic	T.	2.84		.02	.28	.04					.84	.15	T.	.14					.09		T.								.33	.02	.24	4.85
Newark ¹	Coast	4.22	.96		.12	.01	T.					.63	.02	.14	.02					.08		.02	T.							.49	.23	.11	5.25
New Brunswick	Raritan	T.	3.35		.08	.01	.03	T.				T.	.72	.04	.01	.20				.45		.13		.01						.84	.22	.07	5.06
New Milford ^{2†}	Hackensack	15.2	.58		.06	.10	.02					.60	.26	.05	.03					.33			.02										5.33
Newton	Delaware	25.1	.70		T.		.01			.01		.83	.06	.14						.08										.03			3.11
Orange ^{2†}	Passaic	37.2	.74		.13	.06						.49	.04	.11	.03					.08		.02								1.15	.53		5.75
Paterson ²	do.	20.2	.26		.13	T.	T.					1.16	.30	.05	.02					T.		.02								2.00	.01	.67	6.82
Pemberton	Delaware	1.72		.10	.38	T.	.01					1.78	.10	.01	.22						.11	T.		.04							3.07	.01	7.55
Phillipsburg	do.	22.2	.37		T.	.06	T.					.30	.28	.50	.39					.11	T.	.23								T.	.55	T.	5.01
Plainfield	Raritan	.03	3.35		.32	.31	T	T		.02		1.08	.20	.07	.05					.13		.05	.03							.05	1.00	.05	6.74
Plainsboro	do.	.36	.65			.15						.95			.46					T.		.66									1.40		6.67
Pleasantville ³	Coast	.11	.50		.23	.08	.01					1.36	.05		.43						.46	.23	.05	.06						.05			3.57
Rahway ^{2†}	Rahway	* 3.45		.23	.10				.03			1.03	.04	.05	.01					.09		.05								.04		.20	5.32
Ridgefield	Hackensack	.02	2.97		.27	.08	T.					.56	.28	.18	.01					.24			.02								.36	T.	4.99
Ringwood	Passaic	1.59	.43		T.		.02		.07			.75	.01		.01						.15			.05									

Daily Temperatures for June 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	70	57	65	60	69	74	80	91	87	67	70	80	84	71	63	65	68	85	66	61	71	75	74	83	78	78	77	75	72	74	73.0
	Minimum....	57	52	49	55	50	55	61	65	61	54	59	62	65	57	56	56	59	65	57	52	61	64	59	63	66	68	68	66	68	67	59.9
Barnegat City†.....	Maximum...	85	78	71	70	74	85	90	89	82	80	85	85	80	64	71	85	90	81	75	77	85	82	87	91	90	88	82	82	83	81.2	
	Minimum....	64	52	47	49	43	57	55	64	63	65	64	67	55	45	43	48	70	65	62	62	62	68	50	72	71	68	70	65	64	59.8	
Belvidere.....	Maximum...	85	56	74	72	75	72	84	92	86	76	89	85	83	76	77	81	78	86	72	62	76	79	87	90	96	95	85	86	86	81.2	
	Minimum....	54	49	43	54	45	43	55	65	68	45	59	65	67	56	54	41	55	68	56	55	60	56	49	55	61	64	64	67	62	56.8	
Boonton/.....	Maximum...	76	57	68	64	65	65	75	84	79	72	81	81	82	65	75	77	72	84	67	64	77	77	85	89	91	88	89	86	83	76.7	
	Minimum....	62	47	43	43	42	41	40	42	60	43	48	57	58	58	53	46	48	55	53	55	55	57	49	55	59	59	64	64	62	52.7	
Bridgeton.....	Maximum...	85	81	72	71	70	75	85	91	85	80	88	85	83	80	73	78	83	91	78	63	77	81	82	89	91	93	90	88	78	80	81.5
	Minimum....	63	51	52	54	47	50	57	65	66	69	57	66	68	64	55	49	54	70	57	52	60	62	54	57	60	66	67	69	67	59.8	
Burlington.....	Maximum...	86	79	74	74	73	73	85	91	85	85	88	87	84	80	73	85	81	88	72	63	77	80	85	91	95	92	92	90	85	85	82.6
	Minimum....	65	49	48	55	49	46	57	64	58	70	58	65	69	58	53	71	50	69	51	52	63	64	54	60	75	75	75	73	66	76	61.3
Canoe Brook/.....	Maximum...	86	55	74	69	72	73	84	91	82	75	85	85	84	66	74	78	75	88	67	65	79	80	87	91	91	92	93	87	86	80	80.1
	Minimum....	60	47	38	50	42	42	49	60	63	41	57	63	67	57	55	44	47	63	53	55	57	52	45	51	56	57	61	62	59	66	54.0
Cape May*.....	Maximum...	83	67	71	70	68	69	80	87	84	73	82	83	81	76	72	75	73	85	76	75	78	77	83	85	89	88	88	84	84	83	79.0
	Minimum....	60	45	40	50	42	33	49	60	60	43	45	59	66	56	48	41	44	62	49	55	56	55	42	49	53	55	60	61	56	62	51.9
Chatsworth.....	Maximum...	89	85	72	79	80	82	91	84	82	87	82	82	70	70	75	80	71	62	75	79	82	88	90	93	92	90	80	81	81	81	81.4
	Minimum....	65	49	44	50	45	42	50	63	67	42	56	64	65	60	53	44	50	65	50	60	58	59	59	60	65	65	65	65	66	68	57.1
Clayton.....	Maximum...	86	80	74	72	71	74	85	91	89	82	88	82	83	78	72	73	78	89	78	62	76	80	83	89	92	91	90	90	82	83	81.4
	Minimum....	64	52	48	56	52	51	57	64	65	64	65	68	64	56	47	54	69	59	51	59	60	56	69	68	76	66	69	70	69	60.7	
Elizabeth.....	Maximum...	87	61	80	73	73	75	85	92	85	77	86	85	86	80	76	77	75	88	77	65	79	78	87	91	89	94	99	91	85	80	81.9
	Minimum....	60	47	70	50	46	43	42	62	64	45	58	64	66	56	55	57	49	66	58	55	59	56	52	56	60	61	63	55	62	67	56.8
Flemington.....	Maximum...	86	60	77	73	72	73	86	92	85	77	86	86	82	80	82	78	89	76	65	80	89	95	92	93	94	90	88	88	88	88	85.3
	Minimum....	57	47	45	55	46	45	55	65	64	45	57	65	68	56	55	49	52	67	60	54	60	57	51	57	60	63	64	67	64	68	58.8
Freehold.....	Maximum...	85	60	73	68	73	73	82	90	80	76	85	84	83	80	70	74	76	90	76	62	78	80	84	90	90	91	90	88	83	83	79.9
	Minimum....	58	44	42	51	45	46	54	65	65	45	56	63	67	57	53	46	49	68	60	53	57	60	52	56	59	62	65	64	65	65	56.4
Hammonton.....	Maximum...	86	75	75	72	71	76	84	92	86	72	85	81	84	78	80	76	76	83	63	60	71	81	89	86	91	89	83	88	76	83	79.7
	Minimum....	62	48	50	44	43	58	60	60	62	40	52	52	66	51	50	42	58	69	44	51	61	48	63	63	55	65	71	71	67	60	56.2
Hightstown.....	Maximum...	85	56	73	68	70	70	82	89	87	71	85	82	82	74	71	76	76	88	75	63	76	79	83	88	90	90	91	88	83	85	79.2
	Minimum....	55	47	43	49	45	45	54	63	64	44	56	63	68	52	52	47	50	68	57	53	58	58	50	56	60	62	66	64	64	66	56.0
Indian Mills.....	Maximum...	86	60	73	68	71	72	85	90	85	74	87	81	83	72	71	76	80	89	73	61	76	80	83	90	91	92	91	80	80	82	79.7
	Minimum....	60	49	43	52	42	44	52	63	65	40	55	64	69	54	53	42	50	67	56	52	59	59	48	52	57	65	65	65	66	65	55.8
Jersey City*.....	Maximum...	81	52	72	60	68	68	79	87	80	72	82	82	84	70	67	70	72	84	64	60	74	79	82	88	85	89	87	81	82	78	76.0
	Minimum....	52	47	46	53	48	48	58	64	59	50	59	63	68	60	57	52	54	62	57	58	62	56	63	68	67	68	69	67	69	67	58.2
Lakewood.....	Maximum...	88	65	74	66	72	74	86	92	87	80	89	84	85	80	67	73	77	90	75	62	76	81	83	90	88	93	93	89	85	84	80.9
	Minimum....	65	49	42	52	46	45	54	68	66	46	58	64	69	58	53	45	49	68	60	54	58	60	52	57	57	63	67	65	65	67	57.4
Lambertville.....	Maximum...	84	72	75	71	69	70	83	90	85	72	85	77	79	77	72	77	76	85	76	70	65	75	80	84	85	91	91	89	89	83	79.2
	Minimum....	62	47	45	54	45	44	55	65	55	44	57	65	67	51	51	48	53	67	59	52	55	55	50	54	59	62	63	64	64	68	55.7
Layton.....	Maximum...	71	54	73	71	72	68	80	89	86	79	83	83	82	75	75	77	77	82	70	63	75	75	85	90	93	90	90	83	85	84	78.7
	Minimum....	49	47	39	45	39	36	45	61	59	35	54	62	67	46	49	47	49	65	47	52	59	51	45	51	55	61	59	61	67	63	52.2
Little Falls/.....	Maximum...	84	62	75	69	71	72	83	90	81	75	85	85	84	70	76	78	75	86	68	68	78	82	87	90	91	91	91	85	87	84	80.1
	Minimum....	64	47	42	53	46	43	51	62	63	45	60	63	67	59	55	47	50	65	54	56	58	56	50	55	61	60	69	68	62	67	56.7
Long Branch*.....	Maximum...	87	54	69	64	72	72	85	91	83	72	87	82	83	71	67	70	78	88	67	63	75	81	80	88	82	93	90	87	84	81	78.2
	Minimum....	49	48	43	50	46	47	57	69	59	49	58	65	69	55	54	43	52	66	56	56	60	64	54	59	63	66	69	66	68	67	57.6
Long Valley/.....	Maximum...	83	54	72	69	71	69	81	88	82	73	84	83	83	63	74	76	78	87	66	61	77	78	83	88	92	89	90	85	84	85	78.3
	Minimum....	57	46	42	50	44	39	48	59	60	40	55	62	65	55	53	43	49	60	56	54	58	52	44	50	59	60	59	64	58	55	53.5
Moorestown*.....	Maximum...	85	53	72	69	69	71	83	88	82	71	85	80	81	66	70	75	78	86	66	61	75	77	82	88	92	89	89	88	80	80	77.7
	Minimum....	51	47	46	52	49	50	54	65	55	48	57	65	66	53	50	46	50	66	53	53	60	54	51	56	60	64	66	64	64	65	56.0
Morris Plains.....	Maximum...	83	67	71	71	71	71	81	88	88	79	83	83	83	81	71	75	75	87	79	65	76	78	85	88	90	89	89	89	84	84	80.1
	Minimum....	60	46	47	50	48	39	48	60	59	42	56	62	66	57	53	43	47	65	55	54	57	54	48	53	57	57	63	63	59	61	54.4
Newark*.....	Maximum...	85	54	73	67	70	74	86	93	82	75	87	86	84	69	74	75															

CLIMATOLOGICAL DATA

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NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

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No. 7

GENERAL SUMMARY.

Temperature at most stations averaged a little below normal with an average deficiency of 0.7° for the State as a whole. There was no long period of hot weather and the number of days with readings of 90° or higher ranged from none at Atlantic City to 10 at Belvidere and Flemington. The 20th was the hottest day at most stations when maxima of 97° were registered at several stations and the extreme for the State was 98° at Hightstown. The coolest weather was on the 16th and 17th when readings in the forties were registered at a number of stations.

Rainfall was 126 percent of normal and this was the third consecutive month with above normal precipitation. The total for this month, however, was far below the July total of last year when almost twice the normal amount of rain fell. There were moderately heavy rains on the 2d and a period of heavy rains from the 21st to 23d. Numerous light showers occurred at other times. Rainfall was well-distributed over the interior but was lighter on the Sea Coast than elsewhere. In fact, it was somewhat below normal in that area. Soil moisture during the growing season this year has been generally satisfactory for crop growth. Most sections have had near normal precipitation for the calendar year to date.

TEMPERATURE.

The monthly average temperature of the State, as computed from observations of 40 stations, was 73.2° , which was 0.7° below normal. The highest temperature was 98° at Hightstown on the 20th, and the lowest, 40° , at Charlotteburg on the 17th. The highest monthly mean temperature was 76.1° at Clayton, and the lowest, 69.4° at Charlotteburg. The temperature departure from the normal for the year 1946, to date, for the State is $+1.8^{\circ}$.

PRECIPITATION.

The average precipitation of the State, as computed from observations of 58 stations, was 5.91 inches, which was 1.21 inches above normal. The greatest monthly precipitation was 8.68 inches at Charlotteburg, and the least, 3.29 inches at Long Branch. The greatest amount of precipitation in any 24 consecutive hours was 4.65 inches at Belleplain on the 23d. The average for the Highlands was 6.04 inches; for the Red Sandstone Plain, 6.37 inches; for the Southern Interior, 5.60 inches; and for the Sea Coast, 3.69 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -1.91 inches; Red Sandstone Plain, $+0.50$ inch; Southern Interior, -0.14 inch; Sea Coast, -2.81 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 4, 6, 7, 10, 11, 14, 22, 23, 24, 25.

THUNDERSTORMS: 1, 2, 6, 8, 9, 12, 20, 21, 22, 23, 25.

HAIL: 22.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.			
Atlantic City.....	30.29	28	29.88	12	12.8	38	s.	23	84	77	83	66	0	
Long Branch.....	30.28	5	29.85	12	9.1	30	se.	23	82	59	70	66	0	
Newark.....	30.30	5	29.85	12	.....	27	nw.	23	78	50	66	66	0	
Trenton.....	30.29	5	29.84	20	7.5	34	nw.	20	79	51	63	68	0	

COMPARATIVE DATA FOR JULY.

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	75.2	100	44	3.50	0	.....	.....	.....	.....
1886.....	73.0	98	48	4.91	0	.....	.....	.....	.....
1887.....	77.1	102	54	7.67	0	11	.....	.....	.....
1888.....	71.1	95	45	3.50	0	9	.....	.....	.....
1889.....	73.4	95	48	10.19	0	14	.....	.....	.....
1890.....	72.5	101	39	5.62	0	9	12	11	8
1891.....	70.1	95	43	5.30	0	12	10	11	10
1892.....	74.3	105	44	4.03	0	8	12	14	5
1893.....	73.9	102	40	2.72	0	8	14	13	4
1894.....	75.7	106	44	1.66	0	6	14	12	5
1895.....	70.9	99	41	4.26	0	10	12	12	7
1896.....	75.0	98	47	5.50	0	13	13	10	8
1897.....	74.1	102	50	11.42	0	15	10	11	10
1898.....	75.3	107	38	4.96	0	10	11	13	7
1899.....	74.7	98	38	5.75	0	11	13	11	7
1900.....	75.9	104	42	4.74	0	11	15	12	4
1901.....	77.3	107	45	5.87	0	14	9	13	9
1902.....	73.0	100	43	4.78	0	13	10	12	9
1903.....	73.3	100	38	5.51	0	12	16	10	5
1904.....	72.3	98	42	4.87	0	13	13	10	8
1905.....	74.4	102	42	4.06	0	12	12	13	6
1906.....	72.8	94	46	5.58	0	12	11	14	6
1907.....	73.6	96	40	2.62	0	8	8	12	11
1908.....	75.6	106	42	4.70	0	9	12	13	6
1909.....	71.6	99	36	2.12	0	5	14	14	3
1910.....	75.3	99	42	1.36	0	5	12	12	7
1911.....	76.0	104	42	3.64	0	8	12	12	7
1912.....	73.7	100	36	3.86	0	9	14	10	7
1913.....	74.4	100	41	2.52	0	8	20	9	2
1914.....	71.5	97	40	6.05	0	15	9	11	11
1915.....	72.8	98	44	5.31	0	14	10	13	8
1916.....	74.4	97	45	5.40	0	12	11	9	11
1917.....	74.2	104	46	4.83	0	12	10	11	10
1918.....	72.2	104	39	3.93	0	8	17	9	5
1919.....	73.5	103	43	8.39	0	14	14	7	10
1920.....	71.7	96	42	5.76	0	11	17	10	4
1921.....	76.5	99	43	3.62	0	10	14	9	8
1922.....	73.0	98	44	5.79	0	13	13	9	8
1923.....	71.9	102	40	3.88	0	11	15	8	8
1924.....	71.6	98	41	2.59	0	6	19	8	4
1925.....	72.0	99	39	7.37	0	13	15	9	7
1926.....	73.0	105	40	5.46	0	12	16	7	8
1927.....	72.7	99	36	6.06	0	11	13	10	8
1928.....	74.2	96	41	6.86	0	12	16	8	7
1929.....	73.0	102	33	1.64	0	6	17	9	5
1930.....	74.3	105	42	3.98	0	10	16	9	6
1931.....	76.6	102	50	4.24	0	11	13	10	8
1932.....	73.8	98	41	2.76	0	8	19	8	4
1933.....	73.4	105	41	3.73	0	8	16	8	7
1934.....	75.8	100	43	3.65	0	9	16	9	6
1935.....	76.0	101	40	4.66	0	10	14	11	6
1936.....	74.6	110	40	2.47	0	8	17	8	6
1937.....	74.6	103	43	2.83	0	9	17	8	6
1938.....	74.7	98	43	8.84	0	16	11	10	10
1939.....	73.4	98	38	2.83	0	8	14	10	7
1940.....	73.9	104	40	2.73	0	9	15	9	7
1941.....	73.8	105	41	6.46	0	15	12	8	11
1942.....	74.6	105	41	7.30	0	12	13	10	8
1943.....	74.2	97	39	4.21	0	10	14	9	8
1944.....	75.6	101	43	1.44	0	6	17	10	4
1945.....	73.3	99	36	9.32	0	15	8	8	15
1946.....	73.2	98	40	5.91	0	6	16	7	8
Period.....	73.9	110	33	4.70	0	10	14	10	7

Climatological Data for July 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City.....	Atlantic	8	73	72.5	+0.4	85	7	58	17	3.87	-0.06	3.01	2	0	6	8	11	12	s.	U. S. Weather Bureau.
Barnegat City.....	Ocean	36	7	72.5	+0.4	85	7	58	17	3.87	-0.06	3.01	2	0	6	8	11	12	s.	U. S. Coast Guard.
Belleplain.....	Cape May	49	52	73.2	-0.5	93	21	48	17	7.64	+3.45	4.65	23	0	7	19	6	6	s.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth	19	5	73.2	-0.5	93	21	48	17	3.57	+2.23	2.45	20	0	6	19	6	6	w.	City Water Dept.
Belvidere.....	Warren	289	54	74.6	+0.8	95	19	50	16†	7.11	+2.23	2.85	21	0	7	20	3	8	s.	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden	70	5	71.3	-1.0	90	18†	46	17	6.98	+0.64	1.51	21	0	6	15	11	5	s.	Samuel H. McCulley.
Boonton.....	Morris	280	56§	71.3	-1.0	90	18†	46	17	4.98	+0.64	1.51	23	0	8	18	2	11	nw.	John Kline.
Bridgeton.....	Cumberland	30	63	74.9	-1.6	93	7	54	17	5.26	+0.93	3.72	22-23	0	6	21	2	8	se.	Bennett K. Matlack.
Brooklawn.....	Camden	30	5	74.9	-1.6	93	7	54	17	4.56	+0.93	3.72	22-23	0	4	18	7	6	w.	C. D. Scott.
Burlington.....	Burlington	12	60§	76.7	+0.7	98	20	53	17	2.83	-1.67	1.13	20	0	7	22	4	5	s.	Public Service E. & G. Co.
Canoe Brook††.....	Essex	180	16	72.6	+0.2	94	19	42	16	6.42	+2.16	2.22	22-23	0	6	18	7	6	w.	N. J. Dept. of Conservation
Cape May.....	Cape May	17	58	72.6	+0.2	94	19	42	16	6.42	+2.16	2.22	22-23	0	6	18	7	6	w.	Naval Air Station
Charlotteburg††.....	Passaic	760	54	69.4	-1.0	91	19	40	17	8.68	+4.02	4.52	22	0	8	14	0	17	sw.	Newark Water Dept.
Chatham.....	Morris	185	42	73.2	.....	97	20	47	17	6.45	+1.74	1.84	22-23	0	8	16	11	4	.....	Edward P. Molitor.
Chatsworth.....	Burlington	90	6	73.2	.....	97	20	47	17	5.15	+1.74	1.84	22	0	4	16	8	9	sw.	Alfred L. Stevenson.
Clayton.....	Gloucester	120	33	76.1	+0.9	96	20	53	27	8.34	+3.78	3.22	22-23	0	6	19	6	6	s.	Harry P. Campbell.
Clinton.....	Hunterdon	390	3	76.1	+0.9	96	20	53	27	8.34	+3.78	3.22	22-23	0	6	19	6	6	sw.	L. W. Klockner.
Culvers Lake††.....	Sussex	760	45	71.2	-0.9	97	20	51	17	6.07	-0.20	1.39	22-23	0	6	17	2	12	sw.	L. S. Depue.
Elizabeth.....	Union	34	67	74.4	-1.0	97	20	51	17	8.49	+3.54	3.95	22-23	0	6	17	2	12	sw.	Union County Park Comm.
Flemington, 2 mi. N.E.....	Hunterdon	140	60§	75.4	+0.4	96	18	51	17	5.32	+0.23	3.49	22-23	0	6	19	8	4	sw.	Hiram E. Deats.
Freehold.....	Monmouth	191	42§	73.4	-1.2	97	20	50	17	8.05	+3.36	2.65	22-23	0	8	21	4	6	s.	Moreau Plant Co.
Hammononton.....	Atlantic	95	40§	73.1	-2.7	96	20	46	18	6.21	+1.63	2.61	23	0	5	16	7	8	sw.	J. G. Wilson.
Hightstown.....	Mercer	110	53	73.4	-0.8	98	20	48	17	6.03	+1.19	2.53	22-23	0	7	16	11	4	sw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington	100	57	73.0	-1.6	96	20	44	17	6.26	+1.76	3.33	23	0	6	16	10	5	s.	Edward Entwistle.
Jersey City.....	Hudson	81	48	78.0	-2.9	92	7	60	27†	5.03	+0.75	1.90	23	0	8	16	4	11	sw.	J. C. Water Dept.
Lakewood.....	Ocean	54	42	73.6	0.0	97	20	50	17	3.88	-0.59	2.00	23	0	6	9	13	9	sw.	R. W. Holman.
Lambertville.....	Hunterdon	75	59	72.5	-1.7	95	20	48	16	4.51	-0.24	1.60	22-23	0	7	18	6	7	sw.	George Bailey.
Layton††, 3 miles NW.....	Sussex	480	45	71.2	0.0	95	19	48	17	4.85	+0.42	1.84	21-22	0	7	17	4	10	ne.	A. M. Depue.
Little Falls.....	Passaic	157	43	73.9	-0.2	94	7	47	16	6.32	+1.90	3.52	22-23	0	9	19	5	7	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth	34	38	72.8	-0.3	94	20	52	17	3.29	-1.30	1.64	23	0	9	14	10	7	s.	Storm Warn. Display Sta.
Long Valley.....	Morris	660	16	71.0	-0.5	92	19	44	16†	6.19	+0.73	2.30	23	0	7	21	7	3	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington	90	5	71.0	-0.5	92	19	44	16†	6.19	+0.73	2.30	23	0	7	21	7	3	sw.	Arthur Barkman.
Mays Landing.....	Atlantic	50	2	71.0	-0.5	92	19	44	16†	6.19	+0.73	2.30	23	0	7	21	7	3	sw.	Arthur Barkman.
Millville.....	Cumberland	60	6	71.0	-0.5	92	19	44	16†	6.19	+0.73	2.30	23	0	7	21	7	3	sw.	Arthur Barkman.
Moorestown.....	Burlington	62	83	73.4	-1.4	95	20	49	17	5.33	+0.79	2.60	22-23	0	9	15	7	9	sw.	David Griscom.
Morris Plains, 1 mi. W.....	Morris	400	5	70.8	.....	91	19†	45	16†	7.02	.....	.....	.....	0	7	20	4	7	sw.	Elmer Earle.
Newark.....	Essex	10	92	75.0	+0.2	95	19	56	17	5.85	+1.14	3.42	22-23	0	5	9	9	13	sw.	Paul Ritchie.
New Brunswick.....	Middlesex	86	92	73.7	-0.4	95	20	51	17	7.70	+2.83	4.15	22-23	0	6	21	1	9	se.	Japanese Beetle Laboratory
New Milford††.....	Bergen	12	28	73.7	-0.4	95	20	51	17	6.97	+2.34	3.14	22-23	0	5	.....	.....	.....	.....	James C. Long.
Newton.....	Sussex	769	63	71.3	-1.3	92	19	49	16	6.28	+1.63	3.10	21	0	10	.....	.....	.....	.....	U. S. Weather Bureau.
Orange††.....	Essex	140	6	71.3	-1.3	92	19	49	16	6.28	+1.63	3.10	21	0	10	.....	.....	.....	.....	N. J. Experiment Station.
Paterson.....	Passaic	95	75	74.0	-0.6	93	7†	50	17	8.12	+1.64	2.50	23	0	7	16	9	6	w.	Hackensack Water Co.
Pemberton.....	Burlington	55	17	74.3	-1.7	97	20†	49	17	6.40	+1.64	2.50	23	0	7	16	9	6	w.	Irving J. Kern.
Phillipsburg.....	Warren	182	63§	71.3	-2.6	90	14†	49	17	5.25	+1.03	2.14	22-23	0	7	20	6	5	se.	County Engineer.
Plainfield.....	Union	120	58	73.8	-0.2	96	20	50	16†	5.25	+1.03	2.14	22-23	0	7	20	6	5	se.	J. W. Cook.
Plainsboro.....	Middlesex	110	5	73.8	-0.2	96	20	50	16†	6.83	+1.96	2.83	1-2	0	9	14	11	6	sw.	Charles A. Doehrlert.
Pleasantville††.....	Atlantic	8	48	73.1	-0.2	90	18	50	17†	6.83	+1.23	2.30	22	0	9	14	11	6	sw.	Town Engineer.
Rahway.....	Union	20	7	73.1	-0.2	90	18	50	17†	6.83	+1.23	2.30	22	0	9	14	11	6	sw.	S. K. Pearson.
Ridgefield.....	Bergen	50	29	74.0	+0.1	95	19	50	16	6.24	.....	.....	.....	0	5	.....	.....	.....	.....	Walker-Gordon Lab.
Runyon††.....	Middlesex	18	23	71.9	-1.2	97	20	46	5†	3.50	+0.57	1.39	2	0	8	19	4	8	s.	N. J. Dept. of Conservation.
Rutherford.....	Bergen	51	2	72.9	.....	91	19	50	16	7.52	.....	4.41	22-23	0	6	14	10	7	se.	Louis Fontenelli.
Sandy Hook.....	Monmouth	15	48	74.2	+0.7	94	20	60	17	5.36	+0.75	2.40	22-23	0	6	15	11	5	se.	George P. Kirsten.
Somerville, 2 mi. N.....	Somerset	385	63	72.2	-0.2	95	20	45	17	7.09	+2.40	2.87	22-23	0	5	21	7	3	w.	N. J. Dept. of Conservation.
Sussex.....	Sussex	450	51	72.2	-0.2	95	20	45	17	6.66	.....	3.20	22-23	0	6	16	10	5	.....	Harold Scott.
Toms River.....	Ocean	33	25	72.2	-0.2	95	20	45	17	4.03	-1.09	2.58	22-23	0	6	9	15	7	s.	U. S. Coast Guard.
Trenton.....	Mercer	56	74	75.0	+0.5	97	20	56	16	7.68	+2.60	2.75	21-22	0	4	13	9	9	nw.	Joseph Starkman.
Trenton No. 2.....	do.	105	16	75.1	-0.4	97	20	52	16†	4.11	-0.46	1.45	23	0	9	12	5	14	sw.	Marshall Hunt.
Tuckerton.....	Ocean	23	53	72.6	-1.7	92	20	50	17	3.55	-1.69	1.62	23	0	5	.....	.....	.....	.....	Robt. F. Snyder.
Vineland.....	Cumberland	110	66	72.6	-1.7	92	20	50	17	4.13	+0.19	3.27	22-23	0	6	11	12	8	s.	U. S. Weather Bureau.
Westfield.....	Union	145	7	72.6	-1.7	92	20	50	17	4.90	+0.20	2.17	22	0	6	.....	.....	.....	.....	Edward H. Ristow.
Woodcliff Lake††.....	Bergen	103	28	72.6	-1.7	92	20	50	17	4.59	+0.63	2.02	2	0	5	20	3	8	s.	John H. Brown.
New York, N. Y.....	.....	10	76	74.1	+0.3	92	20	58	15	6.13	+1.68	4.00	23	0	6	20	5	6	w.	Robert Jones.
Philadelphia, Pa.....	.....	10	76	76.2	0.0	95	20	59	16	7.70	.....	4.02	23	0	5	21	3	7	sw.	Town Engineer.
For the State.....	.....	.....	.....	73.2	-0.7	98	20	40	17	7.38	+3.28	3.98	22-23	0	5	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	.....	10	76	74.1	+0.3	92	20	58	15	4.45	+0.21	2.81	22-23	0	6	12	10	9	s.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	76	76.2	0.0	95	20	59	16	5.18	+1.03	3.44	22-23	0	8	13	9	9	sw.	U. S. Weather Bureau
For the State.....	.....	.....	.....	73.2	-0.7	98	20	40	17	5.91	+1.21	4.65	23	0	6	16	7	8	sw.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for July 1946

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast	3.01				.05	.01					T.	.02			T.						T.		.01	.77	T.	T.	T.					3.87
Barnegat City ⁴	do.				2.22	T.							.02			T.							.04	T.	*	*	2.80						5.31
Bass River	do.												.02			T.																	7.64
Helleplain	Tuckahoe	2.25	.18			.14	.22	.05		.23			.15												4.65								3.57
Belmar ²	Coast	.68				.05				T.	T.		T.			.03					2.45		.08	.20	T.	.11	T.					7.11	
Belvidere	Delaware	T. 2.02					.04			T.	T.		T.								.05	2.85	.85	1.27								6.98	
Berlin	Mullica	.75					T.					.15								1.28	.50	3.10	1.20									4.98	
Boonton ³	Passaic	.02	1.09				T.					.02	T.	.02			T.					.58	.72	1.51	1.02							4.56	
Bridgeton	Delaware	.04	1.03				T.						.44			T.								.12	3.60	.03						5.26	
Brooklawn	do.												.29									.69	.95	2.63								4.56	
Burlington	do.	.74										.02				.04					*	1.13	.70	.20								2.83	
Canoe Brook ³	Passaic	T. 1.66									.01		T.										.25	.80	2.22	1.48						6.42	
Canton	Delaware	.07	.21	.17			.01							1.85								.31	.48	2.00	.68							5.78	
Cape May ^{2†}	Coast																															8.68	
Charlotteburg	Passaic	.07	1.10				.10						.04								*	.60	4.52	2.25								6.45	
Chatham ³	do.	.01	1.58	.01			.01			T.		T.	T.	T.								.30	.98	1.84	1.72							8.34	
Chatsworth	Coast	2.11																				.15		.17	2.72							5.15	
Clayton	Delaware	T. 2.19				.02							.16			T.							.82	1.93	3.22							8.34	
Clinton	Raritan	1.40				.02				T.		T.	.03	.01									.51	.90	3.20							6.07	
Culvers Lake	do.	.88				.16				T.		T.										1.30	.52	1.39								4.27	
Elizabeth	Coast	.02	1.19										T.										1.61	1.70	3.95	.02	T.					8.49	
Essex Falls	Passaic	1.52																			.29	.72	1.80	1.69								6.02	
Flemington	Raritan	1.37				.03				T.			T.	.02			T.						.41	2.30	1.19							5.32	
Freehold	do.	1.03				.03							T.			.01					2.05	.25	1.85	2.65		.18						8.05	
Hammonton	Mullica		1.91			.46							.05									1.18		.2	.61							6.21	
Hightstown	Raritan	T. .17				T.				T.		T.	T.		.01							.62	.41	2.22	.53	T.	.07					6.03	
Indian Mills	Mullica	1.57				T.	.01						.03			T.						T.	.67	.65	.33		T.					6.26	
Jersey City ²	Coast	.06	1.10	T.					T.	.25	.02											.10	.70	.90	1.90							5.03	
Lakewood	Metedeconk	T. .80														T.							.96	.05	2.00	.04	.03					3.88	
Lambertville	Delaware	.31								.04						T.						.25	1.08	1.15	1.60		.08					4.51	
Layton	do.	.03	1.15													.08							.78	1.84	.96		.01					4.85	
Little Falls ³	Passaic	.19	1.03			T.					.01	.01	.27										.42	.87	.03	1.49						6.32	
Long Branch ^{2†}	Coast	.73				.04	.01					T.	.01			T.							.57	.06	.13	1.64	T.	.10				3.29	
Long Valley ³	Raritan	1.40							.03						.05								.80	.58	1.03	2.30						6.19	
Manville	do.	1.75				T.	T.															.18	.98	2.00	1.80	T.						6.71	
Marlton	Delaware	.40				.02							.12			T.							1.81	2.46	1.67		T.					6.48	
Mays Landing	Gt. Egg Harbor	.92	.01			.69						.07												T.	3.59	.12							5.40
Midland Park	Passaic	.02	.77			.03																.04	.91	1.00	3.10							5.87	
Millville ^{1†}	Maurice	.29				.03							.06											.35	.35	.45							4.18
Moorestown ²	Delaware	.41	T. .27			.01							.12			.02							1.09	.17	.26	.64							5.33
Morris Plains	Passaic	.02	1.13			T.						.03	.01										*	3.53	2.30							7.02	
Newark ¹	Coast	T. 1.08				T.			T.		T.	T.	T.			T.							12	1.02	1.19	2.44		T.					5.85
New Brunswick	Raritan	.09	.99			T.				T.		T.				T.								.32	2.00	4.15		.15					7.70
New Milford ^{2†}	Hackensack	.74				.01																	1.89	1.19	3.14							6.97	
Newton	Delaware	.04	.95			.13				.05			.05			.02							3.10	.70	1.23	.01							6.28
Orange ^{2†}	Passaic	1.58									.02											.15	1.87	1.18	3.14	.18							8.12
Paterson ²	do.	.84				.02			T.		.01	T.				T.						.05	1.92	1.06	2.50								6.40
Pemberton	Delaware	.02	.76			.04						.01	.01			T.							.28	2.00	2.14	T.							5.25
Phillipsburg	do.	.03	2.80			.12		.95	T.	T.	T.	T.	.05			T.						.15	.46	1.05	1.22		T.						6.83
Plainfield	Raritan	T. 1.51				.01		T.			T.	T.	T.			T.						.17	.82	2.30	2.01	.01	T.						6.83
Plainsboro	do.	.30																					*	*	4.80								6.24
Pleasantville ³	Coast	.11		1.39			.74	.08					T.	.03		T.	T.							.23	.91		.01						3.50
Rahway ^{2†}	Rahway	.89																					.40	1.60	1.04	4.41		.12					7.52
Ridgefield	Hackensack	T. 1.36				.03																.09	.34	1.14	2.40								5.36
Ringwood	Passaic	1.12				.11				T.														.54	2.35	2.70		.87					7.69
Runyon	Coast	.58																					1.48	2.04	2.87		.12						7.09
Rutherford	Passaic	.01	1.52			T.				T.			T.									.05	.93	.95	3.20	T.							6.66
Sandy Hook ^{2†}	Coast	.66				T.					T.		T.			T.							.12	.15	1.04	1.82		.24					4.03
Somerville	Raritan	1.80				T.				T.		T.	T.											.40	2.75	2.73		T.					7.68
Sussex	Hudson	.02	1.00	</																													

Daily Temperatures for July 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	75	70	72	73	74	74	85	76	77	81	76	77	80	81	71	74	84	78	79	80	78	77	78	82	74	77	79	79	79	80	77.5	
	Minimum...	68	66	63	62	63	67	69	68	71	70	71	71	72	67	63	68	66	70	71	72	72	69	68	71	66	62	65	67	66	68	67.6	
Barnegat City†.....	Maximum...	85	78	79	80	82	83	91	92	90	89	82	80	87	89	85	82	80	89	90	92	93	89	80	87	82	78	85	83	85	85.2		
	Minimum...	67	66	61	54	61	50	64	61	62	64	71	68	67	59	63	60	48	50	68	67	76	67	72	69	66	50	60	51	50	52	61.3	
Belleplaine.....	Maximum...	87	87	83	86	85	85	93	89	89	90	84	79	90	94	82	82	89	94	95	91	91	75	74	90	84	82	83	87	89	82	86.7	
	Minimum...	72	68	69	55	57	61	65	59	69	68	68	66	62	61	65	50	50	55	68	70	69	66	69	67	63	61	52	53	56	69	62.5	
Belvidere.....	Maximum...	84	86	81	85	82	81	89	80	84	88	79	70	89	87	78	79	85	90	89	87	80	72	85	82	81	82	83	84	85	85	83.1	
	Minimum...	69	67	61	52	55	55	60	57	64	64	64	65	63	57	64	49	46	51	64	64	68	66	64	64	61	52	52	55	58	68	69.5	
Boonton.....	Maximum...	85	76	82	83	81	84	93	91	82	90	81	86	89	82	81	85	90	90	92	92	90	78	85	85	80	82	85	85	85	85	85.1	
	Minimum...	70	68	68	58	58	66	68	68	68	68	72	69	70	66	63	56	54	60	65	70	71	69	70	66	71	63	57	59	58	60	64.7	
Bridgeton.....	Maximum...	87	86	85	85	83	85	94	92	85	94	86	82	89	90	91	90	85	88	92	93	98	89	90	90	87	87	83	87	87	87	87.9	
	Minimum...	69	70	68	58	56	61	70	68	73	74	68	69	68	65	61	53	58	65	73	73	69	69	68	72	63	59	58	64	65	59	65.5	
Burlington.....	Maximum...	86	87	83	85	84	84	92	80	88	90	74	77	90	91	77	79	85	92	94	93	88	85	73	88	82	84	86	88	89	86	85.3	
	Minimum...	70	69	58	56	52	63	65	65	66	63	69	66	63	66	67	42	44	48	57	70	68	67	67	66	68	57	48	51	52	65	69.8	
Cape May*.....	Maximum...	82	82	84	82	81	79	83	81	84	85	84	72	85	87	80	78	85	90	91	90	85	78	71	84	85	80	79	81	84	86	81	82.1
	Minimum...	69	66	58	48	50	57	58	50	63	63	65	61	59	50	52	41	40	45	54	68	65	65	60	63	65	54	45	49	52	64	56	56.2
Charlotteburg.....	Maximum...	85	79	81	84	81	81	91	90	81	90	84	80	87	92	88	80	81	90	92	97	93	88	75	85	78	82	86	79	87	84	85.1	
	Minimum...	65	65	67	55	53	65	69	64	68	67	70	68	66	64	62	51	47	51	59	68	69	66	67	67	68	62	49	51	50	53	52	61.2
Chatsworth.....	Maximum...	86	76	83	84	81	85	94	90	82	90	86	80	89	90	84	79	85	91	91	96	92	87	75	88	85	81	82	85	84	87	85	83.6
	Minimum...	71	68	69	65	64	63	74	65	67	77	74	65	73	64	70	65	62	54	70	72	70	69	70	72	73	64	53	65	63	62	59	66.6
Clayton.....	Maximum...	88	89	83	85	86	84	94	88	88	85	83	78	93	94	76	79	86	94	95	97	90	87	76	87	82	81	85	89	91	90	86.6	
	Minimum...	68	68	63	59	56	66	69	61	67	68	69	55	65	61	61	52	51	32	60	70	66	68	65	68	60	54	55	55	69	60	62.3	
Elizabeth.....	Maximum...	89	88	85	88	85	87	92	88	90	93	85	79	93	96	87	81	92	96	93	93	92	84	71	87	82	82	81	87	89	86	87.5	
	Minimum...	71	69	62	66	57	64	65	61	69	67	71	66	66	61	64	58	51	54	62	70	70	66	68	67	70	61	54	64	56	59	60	63.2
Flemington.....	Maximum...	86	85	86	84	82	85	90	87	83	92	83	75	85	89	82	75	83	90	91	97	89	86	73	84	84	80	82	83	85	87	85	84.6
	Minimum...	67	69	62	56	67	63	69	63	67	66	69	66	65	64	61	51	50	53	61	69	68	64	66	66	67	60	53	56	58	60	59	62.1
Freehold.....	Maximum...	85	78	79	84	82	83	93	88	82	91	82	90	93	82	78	86	93	85	96	92	88	73	80	85	82	88	85	86	86	79	85.3	
	Minimum...	62	64	62	54	65	67	69	59	54	63	63	66	63	62	61	49	61	46	72	60	67	67	65	68	63	58	63	52	55	65	60.9	
Hammonton.....	Maximum...	86	86	79	84	83	84	92	82	85	91	81	78	90	91	85	77	86	93	91	98	91	86	74	84	81	81	83	85	85	86	86.3	
	Minimum...	67	65	59	55	64	54	70	61	67	69	67	66	64	61	49	48	52	62	70	70	67	66	68	64	57	44	45	49	52	64	56	61.4
Hightstown.....	Maximum...	86	75	82	84	82	84	93	88	81	90	84	80	89	91	79	78	87	92	92	96	89	85	73	84	81	81	82	86	86	85	84.9	
	Minimum...	68	67	60	54	52	66	69	62	67	65	72	69	64	64	62	50	44	50	61	70	69	67	67	69	70	61	49	51	51	55	53	61.2
Indian Mills.....	Maximum...	81	84	78	80	78	80	92	78	77	84	72	74	86	82	75	75	80	85	90	80	70	72	76	78	78	79	79	82	84	82	80.0	
	Minimum...	69	68	63	61	63	66	70	65	68	70	67	66	63	68	61	65	66	62	68	72	69	68	67	68	62	60	64	66	66	66	65.9	
Lakewood.....	Maximum...	86	82	78	83	82	83	92	87	84	89	80	79	85	92	82	75	81	90	93	97	90	88	76	82	81	80	84	83	86	80	84	84.6
	Minimum...	68	70	62	56	54	67	70	62	68	66	70	68	66	65	64	52	50	51	63	70	70	68	67	66	69	62	53	60	55	62.5		
Lambertville.....	Maximum...	86	81	84	79	79	82	90	89	83	90	85	77	87	91	81	82	85	87	91	95	85	80	70	84	82	81	82	81	82	85	78	83.8
	Minimum...	70	69	59	57	56	65	59	58	68	68	70	63	66	62	63	48	57	54	60	69	69	66	66	67	68	57	51	53	56	51	60	61.2
Layton.....	Maximum...	85	82	80	84	83	82	90	85	85	85	81	79	87	90	80	80	88	98	95	89	88	73	73	86	82	80	80	83	85	87	82	83.2
	Minimum...	71	67	54	48	48	63	56	50	67	69	66	65	67	62	44	43	46	53	72	70	66	64	67	66	56	60	48	51	53	64	58.6	
Little Falls.....	Maximum...	87	87	82	87	83	86	94	80	90	91	73	84	91	92	79	80	90	93	93	91	89	83	74	87	85	82	84	84	86	88	85	85.8
	Minimum...	69	67	62	55	56	63	67	68	67	68	68	66	66	60	69	47	49	53	60	72	70	66	67	65	70	62	53	54	55	59	60	62.0
Long Branch*.....	Maximum...	84	81	76	82	81	81	92	77	81	85	78	77	84	86	76	74	78	86	92	94	84	82	75	80	79	80	81	86	86	82	81.9	
	Minimum...	69	68	65	59	57	67	70	67	69	67	68	67	69	67	58	55	52	55	65	69	69	64	67	69	61	57	57	58	64	59	63.8	
Long Valley.....	Maximum...	83	83	79	83	81	87	90	81	85	88	78	75	88	88	78	79	86	91	92	90	95	89	85	73	85	81	79	81	84	83	83.6	
	Minimum...	69	68	59	50	52	63	60	55	65	64	67	64	62	55	63	44	44	49	58	67	68	65	66	65	64	69	50	47	50	51	57	58.4
Moorestown*.....	Maximum...	85	84	81	83	80	83	91	88	82	91	84	79	89	89	77	77	86	90	95	89	85	73	85	81	79	81	84	83	84	84	84.3	
	Minimum...	68	68	61	56	64	65	69	64	67	67	68	67	64	63	51	49	57	65	70	68	66	69	67	68	62	53	55	58	60	57	62.4	
Morris Plains.....	Maximum...	83	84	85	84	85	80	90	84	86	86	74	87	89	80	77	83	90	91	91	91	88	80	71	85	85	82	81	82	85	86	85	81.8
	Minimum...	69	67	60	51	62	58	62	56	65	65	66	64	64	56	61	45	45	51	60	70	65	66	64	67	60	57	49	53	58	57	69.8	

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. LI. AUGUST 1946 No. 8

GENERAL SUMMARY

The State average temperature for August was the lowest since 1927 and it was the third coolest August of record in New Jersey. At the majority of stations, the temperature did not reach 90° during the month and it was below normal most of the time. The warmest days were the 5th, 8th, 9th, and 17th. It was quite cool during the last week of the month, during which some stations registered as low as 40°. In most sections, the coolest mornings were the 30th and 31st. No frost was reported, however.

Rainfall averaged slightly below normal but varied greatly in different localities with monthly totals ranging from 2.03 inches at Tuckerton to 8.20 inches at Toms River. In general, it was heaviest in the northeast part of the State and in the northern shore area. There was more than the usual number of days with measurable rainfall and a large number of thunderstorms. The heaviest 24-hour falls were 3.92 inches at Bridgeton on the 18th; 3.66 inches at Toms River on the 7th; and 3.36 inches at Woodcliff Lake on the 13th. The State was free from tropical storms or destructive winds of any kind during the month. While soil moisture was generally adequate, the cool weather retarded somewhat the maturing of later crops.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 41 stations, was 69.2°, which was 2.8° below normal. The highest temperature was 93° at Elizabeth on the 9th, and the lowest, 38°, at Charlotteburg on the 31st. The highest monthly mean temperature was 71.9° at Atlantic City, and the lowest, 66.1° at Layton and Newton. The temperature departure from the normal for the year 1946, to date, for the State is +1.2°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 57 stations, was 4.49 inches, which was 0.23 inch below normal. The greatest monthly precipitation was 8.20 inches at Toms River, and the least, 2.03 inches at Tuckerton. The greatest amount of precipitation in any 24 consecutive hours was 3.92 inches at Bridgeton on the 18th. The average for the Highlands was 3.74 inches; for the Red Sandstone Plain, 5.22 inches; for the Southern Interior, 4.01 inches; and for the Sea Coast, 4.77 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -2.76 inches; Red Sandstone Plain, +1.01 inches; Southern Interior, -1.12 inches; Sea Coast, -2.19 inches.

DATES OF MISCELLANEOUS PHENOMENA.

THUNDERSTORMS: 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 26, 27, 29, 30
HEAVY FOG: 4, 5, 6, 20, 22, 23, 29.
HAIL: 13, 27.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.			
Atlantic City.....	30.39	15	29.70	7	12.5	31	w.	26	83	70	78	64	4	4
Long Branch.....	30.41	15	29.68	7	9.6	24	n.	17	82	67	75	60	4	4
Newark.....	30.37	15	29.67	10	.....	30	nw.	27	79	54	72	.....	5	5
Trenton.....	30.38	15	29.68	10	7.4	22	n.	26	82	55	68	55	6	6

COMPARATIVE DATA FOR AUGUST

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	71.7	95	40	6.11	0	.....	.....	.....	.....
1886.....	69.5	96	42	2.81	0	.....	.....	.....	.....
1887.....	70.4	94	42	3.76	0	.....	.....	.....	.....
1888.....	72.5	98	41	6.13	0	.....	.....	.....	.....
1889.....	69.6	91	45	5.13	0	.....	.....	.....	.....
1890.....	71.5	99	40	4.90	0	11	8	15	8
1891.....	72.8	100	46	5.32	0	13	8	11	12
1892.....	73.4	99	46	3.63	0	9	12	13	6
1893.....	72.8	98	38	6.52	0	8	14	11	6
1894.....	70.9	97	44	2.58	0	7	13	12	6
1895.....	74.2	102	34	2.53	0	7	16	12	3
1896.....	73.6	105	39	1.83	0	7	17	10	4
1897.....	71.0	91	41	4.39	0	9	14	12	5
1898.....	74.8	98	42	5.36	0	10	12	12	7
1899.....	72.3	99	39	4.36	0	9	10	12	9
1900.....	76.3	104	41	2.68	0	10	15	11	6
1901.....	73.8	98	44	9.43	0	11	12	10	9
1902.....	70.1	93	40	3.91	0	9	15	13	3
1903.....	68.4	98	39	6.95	0	13	10	10	11
1904.....	70.8	92	37	6.62	0	9	15	10	6
1905.....	71.1	95	38	5.72	0	12	13	10	8
1906.....	74.6	97	42	5.95	0	13	10	11	10
1907.....	70.5	96	39	3.45	0	10	14	12	5
1908.....	70.6	103	36	5.05	0	10	11	10	10
1909.....	70.2	100	34	4.59	0	6	14	9	8
1910.....	70.4	92	36	3.78	0	10	9	10	12
1911.....	72.1	101	39	8.91	0	11	10	11	10
1912.....	70.0	95	35	3.42	0	10	12	13	6
1913.....	71.7	100	38	4.06	0	10	18	9	4
1914.....	73.3	98	46	3.15	0	9	13	12	6
1915.....	70.9	98	41	7.73	0	13	11	11	9
1916.....	73.2	100	40	1.34	0	6	20	7	4
1917.....	74.0	103	42	2.21	0	8	18	9	4
1918.....	74.4	108	40	1.85	0	7	13	7	6
1919.....	69.9	98	38	6.89	0	13	13	10	8
1920.....	72.3	94	42	6.10	0	17	8	11	12
1921.....	69.8	97	38	4.32	0	9	18	7	6
1922.....	71.2	96	39	4.03	0	12	13	9	9
1923.....	70.8	98	35	2.44	0	8	17	8	6
1924.....	71.9	102	38	4.40	0	8	18	8	5
1925.....	71.0	93	35	2.10	0	7	20	6	5
1926.....	72.8	101	38	6.58	0	14	11	9	11
1927.....	67.1	89	37	8.55	0	12	11	9	11
1928.....	74.5	99	45	6.72	0	13	12	8	11
1929.....	69.8	97	39	2.58	0	9	16	8	7
1930.....	71.1	101	34	3.32	0	6	16	9	6
1931.....	73.5	101	45	5.10	0	12	12	8	11
1932.....	73.5	99	44	2.75	0	7	20	7	4
1933.....	72.7	101	45	10.53	0	14	12	9	10
1934.....	69.8	100	33	3.61	0	10	14	8	9
1935.....	72.4	98	36	2.57	0	8	14	10	7
1936.....	74.2	101	44	4.14	0	10	14	9	8
1937.....	75.2	100	45	6.82	0	14	14	7	10
1938.....	75.4	100	41	3.09	0	8	18	8	5
1939.....	75.3	98	50	7.03	0	11	11	9	11
1940.....	69.4	95	32	5.96	0	12	10	9	12
1941.....	71.0	97	34	4.06	0	9	20	7	4
1942.....	71.3	98	35	8.24	0	11	13	8	10
1943.....	73.2	99	39	2.16	0	6	18	8	5
1944.....	73.9	104	35	2.79	0	8	17	8	6
1945.....	71.2	97	40	4.37	0	8	16	8	7
1946.....	69.2	93	38	4.49	0	12	10	10	11
Period.....	72.0	108	32	4.72	0	10	13	10	8

Climatological Data for August 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City	Atlantic	8	73	71.9	-0.6	85	17	56	31	2.92	-1.57	0.85	26	0	11	4	14	13	s.	U. S. Weather Bureau.
Barnegat City	Ocean	36	7											0						U. S. Coast Guard.
Belleplain	Cape May	49	52	71.6	-0.9	90	5	47	26	3.31	-1.17	1.28	7	0	9	11	7	13	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	5							7.08		1.98	7†	0	16					City Water Dept.
Belvidere	Warren	289	54	68.8	-2.6	92	9	46	24†	4.87	+0.05	0.84	6-7	0	13	12	6	13	sw.	Miss C. S. Hixson.
Berlin, 1 mile W.	Camden	70	5							4.47		2.00	18	0	6	16	8	7	w.	Samuel H. McCulley.
Boonton	Morris	280	56§	66.4	-4.0	87	6†	44	26†	6.10	+1.65	1.35	4	0	13	18	0	13	nw.	John Kline.
Bridgeton	Cumberland	30	63	71.4	-3.4	90	5	52	30	6.30	+1.66	3.92	18	0	7	16	6	9	nw.	Bennett K. Matlack.
Brooklawn	Camden	30	5							3.53		1.26	7	0	7					C. D. Scott.
Burlington	Burlington	12	60§	71.6	-2.8	90	9	51	30†	2.97	-2.40	0.92	6-7	0	10	19	7	5	w.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	16	68.4	-2.3	89	9†	42	31	5.43	+0.17	1.14	17-18	0	16	9	14	8	w.	N. J. Dept. of Conservation
Cape May	Cape May	17	58											0	16					Richard F. Umfrid, Jr.
Charlotteburg††	Passaic	760	54	66.2	-2.1	88	17	38	31	4.26	-0.37	1.89	16	0	13	4	1	26	w.	Newark Water Dept.
Chatham	Morris	185	42							5.83	+0.95	1.27	18	0	16	10	16	5		Edward P. Molitor.
Chatsworth	Burlington	90	6	69.7		90	9	48	25†	4.10		1.64	6-7	0	10	7	16	8	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	33	71.6	-1.7	90	5†	51	25†	2.44	-2.70	0.61	16-17	0	10	14	11	6	sw.	Harry P. Campbell.
Clinton	Hunterdon	300	3							5.18		1.98	6-7	0	15	13	7	11	sw.	L. W. Klockner.
Culvers Lake††	Sussex	760	45							2.14	-2.39	0.60	7	0	11					L. S. Depue.
Elizabeth	Union	34	67	70.0	-3.4	93	9	40	25	4.79	+0.42	1.67	6-7	0	14	10	9	12	ne.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	140	60§	70.0	-2.9	90	5†	48	31	5.49	+0.75	1.39	29-30	0	15	17	6	8	sw.	Hiram E. Deats.
Freehold	Monmouth	194	42§	69.6	-3.3	90	9	43	31	4.19	-0.30	1.14	7	0	11	18	10	3	n.	Moreau Plant Co.
Hammoncton	Atlantic	95	40§	68.5	-5.6	90	5	41	18	4.68	-0.01	1.23	18	0	9	8	13	10	sw.	J. G. Wilson.
Hightstown	Mercer	110	53	69.0	-3.2	89	9	47	24†	3.48	-1.16	1.53	17-18	0	11	12	13	6	ne.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington	100	57	69.4	-3.2	90	9	46	25†	4.52	-1.22	1.11	18-19	0	12	8	14	9	n.	Edward Entwistle.
Jersey City	Hudson	81	48	69.0	-4.9	87	9	51	30†	5.54	+1.10	1.50	19	0	11	12	1	18	nw.	J. C. Water Dept.
Lakewood	Ocean	64	42	70.0	-1.6	90	5†	49	31	7.06	+1.85	2.30	19	0	16	1	17	13	sw.	R. W. Holman.
Lambertville	Hunterdon	75	59	67.9	-4.4	88	9	46	31	4.45	-0.18	1.15	29	0	14	12	12	7	sw.	George Bailey.
Layton††, 3 miles NW.	Sussex	480	45	66.1	-2.6	87	8†	40	31	3.07	-1.10	0.69	6-7	0	13	9	6	16	sw.	A. M. Depue.
Little Falls	Passaic	157	43	69.0	-3.1	89	9†	47	26†	6.91	+2.12	1.95	29-30	0	14	6	16	9	ne.	Passaic Valley Water Co.
Long Branch	Monmouth	34	38	70.0	-1.7	88	17	52	31	5.35	+0.54	2.10	7	0	13	7	11	13	s.	Storm Warn. Display Sta.
Long Valley	Morris	660	16	66.2	-3.2	88	5†	41	31	3.84	-1.19	0.92	6-7	0	11	15	9	7	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	5							3.19		1.02	7	0	10	12	7	12	sw.	David Griscom.
Mays Landing	Atlantic	50	2							4.13		1.23	18	0	11	17	4	10	nw.	Elmer Earle.
Millville	Cumberland	60	6							3.27		1.28	18	0	11	13	9	9		Paul Ritchie.
Moorestown	Burlington	62	83	69.3	-3.3	88	9	47	31	3.08	-1.83	1.16	7	0	12	7	17	17	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	400	5	67.6		87	8†	42	31	5.94		1.86	17-18	0	12	21	1	9		James C. Long.
Newark	Essex	10	92	70.8	-2.2	91	9	53	31	5.21	+0.29	1.63	7	0	12	3	15	13	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	86	92	69.8	-2.4	86	4†	48	31	4.33	-0.68	1.27	29	0	14	12	7	12	ne.	N. J. Experiment Station.
New Milford††	Bergen	12	28							5.33	+0.79	1.44	19	0	11					Hackensack Water Co.
Newton	Sussex	769	63	66.1	-4.3	86	17	43	31	3.87	-0.51	0.79	29	0	12	6	10	15	sw.	Irving J. Kern.
Orange††	Essex	140	6							4.20		1.51	7	0	12					County Engineer.
Paterson	Passaic	95	75	69.4	-2.9	90	9	47	31	7.47	+2.72	1.90	29-30	0	11	9	16	6	n.	J. W. Cook.
Pemberton	Burlington	56	17	70.6	-3.7	90	9	47	25	2.47	-2.31	0.93	7	0	11	14	8	9	nw.	Charles A. Doehlert.
Phillipsburg	Warren	182	63§	66.6	-5.1	90	17	46	31	5.09	+0.49	1.27	6-7	0	11	7	14	10		Town Engineer.
Plainfield	Union	120	58	69.2	-2.7	89	8†	46	31	3.83	-1.22	1.27	17	0	9	6	15	10	n.	S. K. Pearson.
Plainsboro	Middlesex	110	5							3.90		1.29	17-18	0	9					Walker-Gordon Lab.
Pleasantville††	Atlantic	8	48	69.4	-2.7	88	17	50	26	3.45	-1.71	1.09	12-13	0	12	3	17	11	s.	N. J. Dept. of Conservation.
Rahway	Union	20	7							3.09		1.40	7	0	11	7	12	12	ne.	Louis Fontenelli.
Ridgefield	Bergen	80	29	69.6	-2.4	91	9	48	25†	5.49	+1.02	1.29	7	0	10	6	12	13	s.	George P. Kirsten.
Runyon††	Middlesex	18	23	67.0	-4.7	87	17	44	24†	2.83	-1.89	0.67	7	0	12	16	14	1	w.	N. J. Dept. of Conservation.
Rutherford	Bergen	51	2	68.6		88	9	48	31	5.90		1.48	19	0	16	12	10	9		Harold Scott.
Sandy Hook	Monmouth	16	48	71.4	-1.1	87	5	56	30	5.52	+0.54	1.48	13-14	0	12	6	18	7	sw.	U. S. Coast Guard.
Somerville, 2 mi. N.	Somerset	385	63	68.3	-4.0	88	11†	45	24	2.93	-1.88	1.20	7	0	6	7	9	15	w.	Joseph Starkman.
Sussex	Sussex	450	51	67.0	-3.1	88	9†	40	31	2.79	-1.68	0.62	17	0	16	7	4	20	ne.	Marshall Hunt.
Toms River	Ocean	33	25							8.20	+2.49	3.66	7	0	13					Robt. F. Snyder.
Trenton	Mercer	56	74	70.4	-2.6	89	5	52	30	2.86	-1.89	0.80	6-7	0	14	4	13	14	n.	U. S. Weather Bureau.
Trenton No. 2	do.	105	16	70.6	-2.9	89	5	50	30	4.25	-0.65	1.13	7	0	12					Edward H. Ristow.
Tuckerton	Ocean	23	53	71.2	-1.5	90	17	50	26†	2.03	-3.50	0.34	17	0	11	13	6	12	s.	John H. Brown.
Vineland	Cumberland	110	66							6.51	+0.77	1.80	18-19	0	10	15	10	6	w.	Robert Jones.
Westfield	Union	145	7							3.93		1.44	17	0	10	15	6	10	ne.	Town Engineer.
Woodcliff Lake††	Bergen	103	28							6.18	+1.83	3.36	13	0	11					Hackensack Water Co.
New York, N. Y.		10	76	70.6	-2.5	87	9	53	30	3.52	-0.81	1.06	7	0	10	8	11	12	n.	U. S. Weather Bureau.
Philadelphia, Pa.		10	76	72.2	-2.6	89	5	66	30	4.44	-0.18	1.92	6-7	0	14	8	10	13	nw.	U. S. Weather Bureau.
For the State				69.2	-2.8	93	9	38	31	4.49	-0.23	3.92	18	0	12	10	10	11	sw.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for August 1946

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast	.15					T.	.28			T.		.05	.78			.04	.38	.07					.16			.85			.14	.02	T.	2.92	
Barnegat City ⁴	do.	.12		.01			.03	.51			T.				.67					.57	.12			.80	.05		.01	.06			.05		2.53	
Bass River	Tuckahoe	.22						1.28						.20			.20	.46												.05			3.31	
Belleplain	Coast	.22	T.	T.	T.	.30	T.	1.98		.01	.12		.23	.25	T.	T.	.22	.63	.01	1.98				.21						.72	.01		7.08	
Belmar ²	Delaware	T.	.10			.78		.84			.36				.33		.25	.12	.68	.40					.12		.01		.27	T.			4.87	
Belvidere	Mullica						.90	T.					.47					10.20					.25				.23			.69	.18		4.47	
Berlin	Passaic		.05	T.	1.35		T.	.45	.67						.90	T.		.25	.72	.06	.04			.12				T.		.04	T.	1.27	6.10	
Boonton ³	Delaware	T.					10.13									.20		.21	3.92		.28									.46			6.30	
Bridgeton	do.	T.					1.26											.48	.59		.12			.21				.48			.39		3.53	
Brooklawn	do.	.05		.01			.92						.02				.52	.01	.12	.67		.60		.05									2.97	
Canoe Brook ³	Passaic		.03		.13		.96	.51	.27				.10	.53				.15	1.14	.20	.03								.02	.15	.40	.80	.01	5.43
Canton	Delaware						1.00											.34	.23	.42	.30									.49			6.65	
Cape May [†]	Coast																																	
Charlotteburg	Passaic		.10		.12		.63	.01			.42			.04	.76	T.		1.39	.15	.10				.05				.06			.43		4.26	
Chatham ³	do.	.03		.03	.08		1.26	.49	.39					.01	.78	T.		.13	1.27	.12	.04			.01				.02	.13	.27	.85		5.83	
Chatsworth	Coast	.09		.46	T.		T.	1.64							.75		T.	.22	.09	.07	.25			.39				.14					4.10	
Clayton	Delaware	T.		T.			.09	.52	.02					.05			T.	.61	.41	.03	.09			.26							.36		2.44	
Clinton	Raritan	T.	.01	T.		.17	1.98	.13			.12	.01		.40	.22		.27	.25	.57	.13				.04							.30	.58		5.18
Culvers Lake	do.	.07				T.	.60				.03			.06			T.	.41	.10	.28								.14	.03		.37	.05		2.14
Elizabeth	Coast		T.			.05	.02	1.65					.08	.86	.15		.09	.24	.55	.27			T.	.02			T.	.10	T.	.13	.58		4.79	
Essex Fells	Passaic	.30		.25			.99						.79					.88		.31			.15				.06		.03			1.12		4.88
Flemington	Raritan	T.			.14		1.03	.06			T.	.03		.27	.05			.07	.26	.92	.08	.03		.08		1.08				.03	1.36		5.49	
Freehold	do.						1.14				.33		.59	.22	T.		.18	.50	.30	T.				.32			.03	T.		.06	.52		4.19	
Hammonton	Mullica						T.	1.05							T.			.46	.49	1.23	.15	.91		T.	.09			.15	.15				4.68	
Hightstown	Raritan	T.		T.		T.	.13	.90			T.	.29	T.		T.			.07	.10	1.43	.05			T.	.06			.09		.02	.34		3.48	
Indian Mills	Mullica	T.	T.	.18			T.	.01	.83						.04			.11	.09	1.06	.05	.31			.22			.70			.92		4.52	
Jersey City ²	Coast	.03		.88		.07		1.46						.50				.14	.70		1.50							.03		.13	.10		5.54	
Lakewood	Metedeconk	.20			.04		10.170			.04		.05	T.		.55			.02	.16	.78	.30			.14			.32	.08		.08	.50		7.06	
Lambertville	Delaware	.08		T.		T.	.01	.95	.01		T.			.02	T.			.02	.78	.50	.05		.01	.09		.04	T.		1.15	.74		4.45		
Layton	do.	.08		.07	.19		.69				.02			.47	.04			.07	.43	.40	.14							.35			T.	.12	3.07	
Little Falls ³	Passaic	.05		1.36			.82	.31						.15	.78			.17	.62	.43	.01			.22					.02	1.95		6.91		
Long Branch [†]	Coast	.16				T.	2.10				.12		.04	.09	T.	.03		.08	.25	.08	1.83			.05			T.	T.		.50	.02		5.35	
Long Valley ³	Raritan		.04				.32	.60			.06			.06	.69			.35	.80	.05	.02								.04	.87		3.84		
Manville	do.	.15	T.				.64							.06				.05	.80				.02						.93				2.65	
Marlton	Delaware	T.		T.			T.	1.00	.02		T.			.12				.06	.24	.16	.90	.06			.16					.47		3.19		
Mays Landing	Gt. Egg Harbor	.04					1.07											.10	.20	1.23	.12	.53			.08			.12	.12		.52		4.13	
Midland Park	Passaic	.03	.03	.02			1.42							1.97				.05	1.05		1.16												6.24	
Millville [†]	Maurice			.13			.11	.71							.11			.11	1.28		.20		.01	.21			.01			.41	.09		3.27	
Moorestown ³	Delaware		T.		T.		T.	1.16	.05		.01			.31				.30	1.10	.49	.02		.01	.07			T.		.01	.55		3.08		
Morris Plains	Passaic		.03		.40	T.	1.40	.01						.37	.60	.01		T.	1.85	.01				.07				.03	.16				5.94	
Newark ¹	Coast	.01	T.	T.		.11	T.	1.63	.01		T.			.76	.01			.26	.47		1.19			.01			.01	.10		.65	T.		5.21	
New Brunswick	Raritan	.10	.10			.22	.47				T.			.37	.72			.03	.15	.80	.01			.06				.03		.04	1.23		4.33	
New Milford [†]	Hackensack	.04	.02	.08			1.04							1.01	.04			.20	.54		1.44			.02						.90			5.33	
Newton	Delaware		.14	.74		.01	.74	T.			.38			.28				.10	.34	.13	.11						.11			.79	T.		3.87	
Orange ^{2†}	Passaic	.01	.01	.12	.03		1.51							.41				.11	.42		.75						.03	.11		.69			4.20	
Paterson ²	do.	T.	.04	.51	T.		1.13							1.70	T.			.30	.54		1.05		.15	T.				.15		.05	1.85		7.47	
Pemberton	Delaware						.91	.02			.10			.02				.01	.48	.06	.15	.09		.15						.48			2.47	
Phillipsburg	do.	T.	.17				T.	1.27			.33			.21				.21	.34	1.15	.26			.04			T.	T.		.99	.12		5.09	
Plainfield	Raritan	T.	.01			.16	T.	.69						.60			T.	.13	1.27		T.			.05			.06			.86			3.83	
Plainsboro	do.																																	
Pleasantville ³	Coast	.15	T.				.50							.20	.89			.28	.02	.30	.12			.03	.03				.69		.24		3.45	
Rahway [†]	Rahway		.08			.04	1.40							.62				.12	T.		.09							.04	.19			.51		3.09
Ridgefield	Hackensack	T.	.05	1.17			1.29				T.		T.	.38	T.		.05	.47	.07	.69		.41									.91		5.49	
Ringwood	Passaic		.15		.02		.71						.80	.05	.51			.32	.30	.56				.03				.01	.12		.53		4.11	
Runyon	Coast						.67						.1																					

Daily Temperatures for August 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Atlantic City*.....	Maximum...	76	71	78	80	80	78	79	80	80	80	80	78	74	76	77	85	77	81	85	80	79	78	76	75	74	78	79	76	67	73	77.7		
	Minimum...	66	64	68	72	72	71	66	65	72	74	67	65	63	68	71	72	72	73	70	70	68	64	59	58	58	60	67	56	56	66.1			
Barnegat City†.....	Maximum...	81	75	83	88	90	88	76	84	88	86	84	82	79	79	80	77	88	86	82	84	83	81	82	77	78	80	82	80	74	75	81.7		
	Minimum...	51	57	60	63	65	74	65	62	61	69	52	58	70	69	57	52	69	67	75	74	73	71	61	50	66	47	48	50	68	52	61	61.5	
Belleplaine.....	Maximum...	78	70	83	91	90	80	75	89	92	87	80	85	72	81	82	72	91	80	73	83	80	80	74	76	79	77	80	84	82	77	77	80.6	
	Minimum...	63	59	62	52	64	60	62	56	63	66	60	55	58	60	60	64	67	65	64	63	64	60	54	46	47	51	46	49	64	47	47	57.0	
Boonton/.....	Maximum...	79	72	79	84	87	81	67	87	86	83	76	80	68	77	79	77	86	75	71	80	77	84	73	73	77	56	76	79	78	70	74	77.1	
	Minimum...	67	57	55	61	64	59	62	58	57	62	58	53	55	55	65	58	55	65	63	61	53	57	46	50	48	44	51	56	57	48	44	55.6	
Bridgeton.....	Maximum...	79	77	84	88	90	84	75	86	88	87	78	82	82	77	80	75	86	80	79	82	84	83	77	75	75	77	77	82	80	73	74	80.5	
	Minimum...	67	62	62	67	69	65	62	65	69	65	59	65	61	59	62	71	68	69	65	64	61	62	55	53	54	55	55	67	52	55	62.3		
Burlington.....	Maximum...	80	75	86	88	89	88	77	88	90	85	81	83	80	80	82	80	89	85	76	84	80	83	80	77	76	79	79	80	81	76	75	81.7	
	Minimum...	61	63	67	62	66	69	64	63	65	66	65	56	62	66	66	60	67	68	65	65	60	62	62	54	53	55	57	54	65	51	51	61.6	
Canoe Brook/.....	Maximum...	80	77	83	87	88	80	67	88	89	84	78	82	68	77	80	76	89	79	72	83	80	85	75	84	77	89	78	82	91	72	76	80.5	
	Minimum...	63	59	55	63	62	59	64	56	59	63	56	49	56	58	56	59	64	64	64	61	63	57	60	46	43	50	48	45	59	49	42	56.2	
Cape May*.....	Maximum...	79	78	78	84	85	83	79	86	86	85	83	78	77	76	77	76	88	80	73	79	77	81	80	75	76	75	75	79	79	72	74	79.1	
	Minimum...	60	66	49	56	60	56	60	53	53	60	60	49	50	56	52	56	64	64	60	58	46	51	58	46	46	44	49	46	53	44	38	53.3	
Chatsworth.....	Maximum...	75	76	79	86	88	80	72	85	90	85	80	82	79	77	79	80	88	86	76	82	81	84	77	74	76	76	76	83	82	76	73	80.1	
	Minimum...	63	61	53	66	65	65	63	60	60	63	63	52	65	60	53	58	64	67	66	58	68	69	62	50	48	49	52	48	67	52	48	59.3	
Clayton.....	Maximum...	75	74	82	88	90	84	72	86	88	80	86	87	82	79	81	76	89	86	78	81	83	82	76	76	77	77	82	84	80	74	75	81.2	
	Minimum...	65	61	67	67	72	65	63	61	69	63	63	59	69	64	58	59	69	67	68	64	59	64	63	54	51	52	58	57	68	52	51	62.0	
Elizabeth.....	Maximum...	72	75	84	90	91	84	80	91	93	85	84	84	74	78	79	79	89	89	87	86	85	81	87	78	80	81	78	82	84	80	76	79	81.9
	Minimum...	64	52	58	66	65	60	70	58	62	64	59	63	62	59	56	68	63	66	64	65	56	62	53	50	40	52	53	50	61	50	48	58.0	
Flemington.....	Maximum...	78	76	82	89	90	80	76	88	90	87	80	81	73	78	81	76	89	85	73	84	81	84	75	78	78	78	79	84	80	76	76	80.8	
	Minimum...	63	61	58	64	65	63	63	59	61	65	61	54	60	60	65	63	67	67	64	63	54	59	61	51	49	54	55	53	61	50	48	59.1	
Freehold.....	Maximum...	78	74	80	86	87	84	77	87	89	84	79	80	78	75	80	78	87	83	76	83	79	84	78	77	77	75	72	79	74	76	80.1		
	Minimum...	63	59	58	66	65	66	62	61	63	61	62	56	60	60	67	60	63	57	63	66	57	64	61	50	49	51	54	52	64	51	48	59.0	
Hammononton.....	Maximum...	73	74	73	72	90	84	73	81	86	88	81	85	80	79	82	82	88	87	83	84	84	86	84	84	86	84	78	79	78	86	72	78	80.5
	Minimum...	54	53	64	63	71	65	61	63	58	65	58	52	49	52	64	54	51	41	65	63	64	56	61	48	48	49	68	61	54	49	46	56.5	
Hightstown.....	Maximum...	76	74	81	87	88	82	71	86	89	85	79	80	81	76	82	79	83	83	74	82	81	85	75	77	79	77	79	83	80	75	78	80.2	
	Minimum...	65	60	58	63	67	63	60	59	63	67	60	53	60	59	54	58	61	63	61	62	54	57	59	47	47	50	54	51	62	49	47	57.8	
Indian Mills.....	Maximum...	75	75	80	87	88	84	71	85	90	87	79	82	81	79	79	78	88	79	76	82	80	84	75	76	77	80	76	82	79	72	75	80.8	
	Minimum...	65	61	59	67	65	65	63	60	63	67	62	53	62	59	50	57	66	68	67	65	65	61	62	48	46	47	61	49	66	50	46	58.1	
Jersey City*.....	Maximum...	75	72	76	79	84	80	73	84	87	81	76	77	71	71	74	73	85	75	69	79	77	80	71	76	75	74	74	78	77	71	72	76.3	
	Minimum...	63	59	64	67	70	66	63	60	66	70	66	60	62	60	62	64	65	68	64	67	60	64	62	64	54	56	56	62	51	51	61	67.0	
Lakewood.....	Maximum...	76	74	81	85	90	86	75	84	90	86	83	81	79	74	78	81	88	84	74	84	79	82	76	77	79	73	78	82	79	74	75	80.2	
	Minimum...	62	60	60	65	64	66	62	60	63	67	62	52	61	61	55	59	65	67	66	68	61	63	52	51	52	54	51	65	54	49	59.8		
Lambertville.....	Maximum...	75	72	77	85	84	81	70	84	88	83	79	77	77	76	75	72	83	76	75	79	76	84	74	74	73	73	74	74	81	65	72	77.0	
	Minimum...	63	62	55	65	66	62	62	69	63	70	59	54	61	58	57	60	68	68	65	64	56	62	67	50	48	50	51	49	63	49	46	58.8	
Layton.....	Maximum...	77	72	76	83	82	80	70	87	86	83	76	76	70	78	78	72	87	79	72	80	77	80	74	75	74	74	76	79	80	70	75	77.4	
	Minimum...	61	58	53	68	62	64	61	53	57	60	54	50	51	56	58	56	66	63	63	57	51	57	56	43	45	50	49	51	55	42	40	54.8	
Little Falls/.....	Maximum...	78	74	82	87	88	82	70	88	89	85	80	81	68	78	80	80	89	75	71	83	79	84	76	78	78	78	79	82	81	72	75	79.7	
	Minimum...	63	59	56	63	66	60	64	69	61	64	61	53	58	59	58	61	64	66	63	62	55	58	61	50	60	47	52	50	61	60	47	58.4	
Long Branch*.....	Maximum...	74	74	80	85	87	81	72	83	87	86	80	80	77	73	76	78	88	79	73	82	76	81	73	77	78	75	76	80	81	68	75	78.5	
	Minimum...	61	61	60	68	68	63	64	65	69	61	55	63	64	62	62	69	69	67	64	59	64	60	54	53	56	56	54	61	56	52	61.5		
Long Valley/.....	Maximum...	78	71	80	87	88	80	66	85	88	84	77	78	72	77	78	72	88	76	73	81	78	82	73	75	77	76	78	81	78	72	74	78.1	
	Minimum...	58	57	63	60	60	56	58	55	56	61	57	50	55	57	53	59	61	63	62	60	55	58	45	43	47	51	45	48	44	41	64.2		
Moorestown*.....	Maximum...	73	75	81	87	87	83	68	85	88	84	77	81	81	78	80	75	87	77	76	82	81	82	75	75	75	77	76	82	79	71	75	79.1	
	Minimum...	62	61	62	63	67	65	62	61	62	68	66	55	60	59	56	58	67	68	66	62	58	61	57	53	49	53	54	52	58	52	47	59.5	
Morris Plains.....	Maximum...	81	72	79	85	85	85	76	87	87	85	83	80	80	74	78	77	86	74	73	81	80	81	79	79	76	77	80	80	78	74	79.6		
	Minimum...	61	68	62	61	6																												

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CLIMATOLOGICAL DATA

UNIVERSITY OF ILLINOIS

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. LI.

SEPTEMBER 1946

No. 9

GENERAL SUMMARY

September was a warm month though not as warm this year as it was last year. The month did not average quite as warm as August but there were more days with high temperatures. The warmest days were the 9th, 10th, and 19th, and monthly maxima of 92° were registered at nine stations. There was no damaging frost during the month though some light frost occurred in the cranberry bogs and a few upland localities about the middle of the month.

Rainfall, as in August averaged slightly below normal. It varied greatly in different localities, averaging considerably more in the northern counties than in south Jersey. In general, it was light during the first twenty days with the principal rains occurring from the 21st to 24th inclusive, when very good amounts fell throughout most of the State. These rains were heavy in the northeastern portion where several stations recorded 3.00 inches or more within 24 hours.

There were no destructive storms. Sunshine percentage was near normal and the weather of the month was generally favorable for agriculture and all outdoor activities.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 41 stations, was 67.5°, which was 1.6° above normal. The highest temperature was 92° at nine stations on the 9th, 10th and 19th, and the lowest, 34°, at two stations on the 15th. The highest monthly mean temperature was 72.3° at Burlington, and the lowest, 64.4° at three stations. The temperature departure from the normal for the year 1946, to date, for the State is +1.3°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 58 stations, was 3.34 inches, which was 0.44 inch below normal. The greatest monthly precipitation was 6.22 inches at Chatham, and the least, 1.43 inches at Pleasantville. The greatest amount of precipitation in any 24 consecutive hours was 3.46 inches at Boonton on the 24-25th. The average for the Highlands was 3.34 inches; for the Red Sandstone Plain, 4.14 inches; for the Southern Interior, 2.64 inches; and for the Sea Coast, 3.00 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -3.48 inches; Red Sandstone Plain, +1.10 inches; Southern Interior, -2.19 inches; Sea Coast, -1.88 inches.

DATES OF MISCELLANEOUS PHENOMENA.

THUNDERSTORMS: 2, 3, 8, 21, 24, 30.

HEAVY FOG: 1, 7, 8, 9, 10, 18, 19, 20, 21, 22, 23, 24, 27, 28, 29, 30.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind			Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.	
Atlantic City.....	30.37	6	29.71	30	13.6	38	ne.	13	91	81	85	58
Long Branch.....	30.40	6	29.66	30	8.2	36	nw.	30	84	62	70	64
Newark.....	30.43	5	29.70	30	.....	31	n.	30	81	51	72	18
Trenton.....	30.40	6	29.72	30	6.8	24	nw.	30	82	50	67	65

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	0.1 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	64.2	93	38	0.83	0	.....	.....	.....	.....
1886.....	66.9	95	36	1.13	0	.....	.....	.....	.....
1887.....	61.6	90	30	3.66	0	7	.....	.....	.....
1888.....	63.1	84	29	7.09	0	12	.....	.....	.....
1889.....	64.8	90	34	8.36	0	14	.....	.....	.....
1890.....	64.4	91	33	4.75	0	10	10	10	10
1891.....	68.7	95	38	2.46	0	6	16	9	5
1892.....	64.2	90	33	1.81	0	6	15	11	4
1893.....	62.7	90	31	3.20	0	8	12	10	8
1894.....	68.8	97	31	7.46	0	8	10	10	10
1895.....	69.7	109	29	1.07	0	5	17	10	3
1896.....	65.1	95	30	4.37	0	5	19	7	4
1897.....	65.5	99	30	1.65	0	5	19	7	4
1898.....	68.6	100	31	2.00	0	6	17	8	5
1899.....	64.4	93	30	5.88	0	9	15	9	6
1900.....	69.9	98	32	2.86	0	6	14	10	6
1901.....	66.8	94	29	3.38	0	10	15	9	6
1902.....	64.6	93	30	5.65	0	13	11	7	12
1903.....	65.0	92	29	3.34	0	7	17	8	5
1904.....	64.8	93	23	4.79	0	7	14	10	6
1905.....	65.4	90	28	5.23	0	8	16	7	7
1906.....	68.9	94	33	2.19	0	7	15	9	6
1907.....	67.1	92	31	8.08	0	14	10	8	12
1908.....	65.7	90	29	2.09	0	3	11	10	9
1909.....	64.5	89	30	2.30	0	8	11	10	9
1910.....	67.3	97	32	2.39	0	6	12	10	8
1911.....	66.4	90	30	2.88	0	9	10	12	8
1912.....	65.9	87	28	4.47	0	10	12	7	11
1913.....	64.4	96	27	3.87	0	9	13	8	9
1914.....	64.0	99	24	0.37	0	3	21	6	3
1915.....	68.5	97	30	2.08	0	5	17	9	4
1916.....	65.2	98	31	2.84	0	6	20	7	3
1917.....	61.5	87	27	2.74	0	6	16	7	7
1918.....	62.2	90	29	3.84	0	9	14	8	8
1919.....	65.8	96	32	3.26	0	8	16	6	8
1920.....	66.8	90	30	3.87	0	7	17	8	5
1921.....	70.2	99	36	2.35	0	8	15	8	7
1922.....	66.7	95	27	2.26	0	4	19	5	6
1923.....	67.0	90	28	3.78	0	7	14	8	8
1924.....	62.2	99	29	5.42	0	10	13	8	9
1925.....	67.8	96	25	2.92	0	7	11	11	8
1926.....	64.5	93	32	4.18	0	10	14	6	10
1927.....	65.6	97	29	2.66	0	5	19	6	5
1928.....	62.6	90	29	4.52	0	10	12	8	10
1929.....	67.0	100	28	4.74	0	8	14	7	9
1930.....	69.4	95	32	2.14	0	8	16	9	5
1931.....	70.5	100	34	1.98	0	6	19	6	5
1932.....	66.4	100	27	2.29	0	7	16	8	6
1933.....	68.0	93	38	6.07	0	10	12	9	9
1934.....	67.3	91	35	9.00	0	13	10	7	13
1935.....	63.2	89	27	6.12	0	8	15	7	8
1936.....	66.9	94	28	4.30	0	8	12	8	10
1937.....	63.4	98	29	2.63	0	6	19	5	6
1938.....	63.6	95	30	9.67	0	13	12	7	11
1939.....	66.5	98	31	1.49	0	8	15	9	6
1940.....	63.5	93	25	4.41	0	5	17	6	7
1941.....	67.5	98	26	0.28	0	2	21	6	3
1942.....	66.1	96	25	4.55	0	8	16	5	9
1943.....	65.0	98	26	1.85	0	6	15	7	8
1944.....	66.8	99	28	7.93	0	9	12	7	11
1945.....	69.0	96	39	4.68	0	10	11	7	12
1946.....	67.5	92	34	3.34	0	6	17	6	7
Period.....	65.9	109	23	3.78	0	8	15	8	7

Climatological Data for September 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches						No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy			
Atlantic City.....	Atlantic.....	8	73	68.6	+1.8	82	11	47	30	1.93	-0.72	0.96	29-30	0	6	9	7	14	ne.	U. S. Weather Bureau.	
Barneget City.....	Ocean.....	36	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	52	.....	.....	90	10	.....	.....	2.31	-1.32	0.80	21-25	0	6	16	3	11	s.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	5	.....	.....	.....	.....	.....	.....	3.14	.....	1.37	30	0	5	.....	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	54	67.9	+2.6	92	19	40	14	3.13	-0.65	1.58	21	0	5	21	4	5	.....	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	5	.....	.....	.....	.....	.....	.....	3.13	.....	1.75	24	0	6	19	5	6	ne.	Samuel H. McCulley.
Boonton.....	Morris.....	280	56	65.2	+1.5	90	19	42	14†	6.15	+2.03	3.46	21-25	0	6	17	0	13	nw.	John Kline.	
Bridgeton.....	Cumberland.....	30	63	68.8	+0.4	89	10	47	15	2.46	-1.04	0.85	12-13	0	8	20	7	3	se.	Bennett K. Matlack.	
Brooklawn.....	Camden.....	30	5	.....	.....	.....	.....	.....	.....	2.57	.....	1.65	23-24	0	3	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	60	72.3	+4.3	90	9	45	15	1.93	-1.86	1.33	24	0	5	26	2	2	w.	Public Service E. & G. Co.	
Canoe Brook††.....	Essex.....	180	16	65.8	+1.8	92	19	37	14†	5.49	+0.63	2.87	24	0	6	20	5	5	w.	N. J. Dept. of Conservation	
Cape May.....	Cape May.....	17	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Richard F. Umfrid, Jr.
Charlotteburg††.....	Passaic.....	760	54	64.5	+2.0	89	18†	34	15	5.63	+1.14	1.98	24-25	0	8	13	0	17	w.	Newark Water Dept.	
Chatham.....	Morris.....	185	42	.....	.....	.....	.....	.....	.....	6.22	+1.74	3.58	24	0	7	17	9	4	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	6	68.8	.....	91	8†	42	15†	2.76	.....	1.23	24	0	4	12	14	4	sw.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	33	70.7	+3.5	90	5†	47	14	2.66	-0.83	1.53	24	0	6	19	5	6	sw.	Harry P. Campbell.	
Clinton.....	Hunterdon.....	300	3	.....	.....	.....	.....	.....	.....	2.37	.....	1.12	23-24	0	5	20	5	5	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	45	.....	.....	.....	.....	.....	.....	2.70	-1.48	1.14	30	0	6	.....	.....	.....	.....	L. S. Dupue.
Elizabeth.....	Union.....	34	67	69.1	+2.1	92	19	46	15†	4.88	+0.83	2.93	24	0	7	22	1	7	ne.	Union County Park Comm.	
Flemington, 2 mi. N.E.....	Hunterdon.....	140	60	68.6	+1.7	92	19	45	14†	2.35	-1.44	0.79	29-30	0	6	22	3	5	sw.	Hiram E. Deats.	
Freehold.....	Monmouth.....	194	42	68.2	+2.0	90	9†	46	14†	3.68	-0.70	1.55	30	0	5	25	1	4	sw.	Moreau Plant Co.	
Hammonton.....	Atlantic.....	95	40	68.4	+1.1	91	10	39	15	3.03	-0.53	1.49	24-25	0	6	15	6	9	ne.	J. G. Wilson	
Hightstown.....	Mercer.....	110	53	67.4	+0.9	91	19	41	15	3.11	-0.70	1.84	24	0	5	17	8	5	sw.	James R. Pickering	
Indian Mills††, 2 mi. W.....	Burlington.....	100	57	67.7	+1.2	90	10	39	15	2.66	-1.31	1.45	24	0	5	12	13	5	ne.	Edward Entwistle.	
Jersey City.....	Hudson.....	81	48	67.2	-0.5	88	19	46	14	3.13	-0.59	1.64	24	0	4	20	1	9	sw.	J. C. Water Dept.	
Lakewood.....	Ocean.....	54	42	68.0	+2.5	91	10	44	15†	3.26	-0.23	1.06	24-25	0	6	9	14	7	ne.	R. W. Holman.	
Lambertville.....	Hunterdon.....	75	59	66.8	+0.8	91	19	41	14	2.28	-1.39	1.13	23-24	0	5	21	5	4	s.	George Bailey.	
Layton††, 3 miles NW.....	Sussex.....	480	45	64.4	+1.8	90	19	36	16	4.80	+0.89	1.87	21	0	4	16	2	12	ne.	A. M. Dupue.	
Little Falls.....	Passaic.....	157	43	67.0	+1.5	92	19	42	15	5.03	+0.81	3.00	24	0	6	14	9	7	e.	Passaic Valley Water Co.	
Long Branch.....	Monmouth.....	34	38	67.8	+1.7	90	10	47	15†	4.28	+0.49	2.14	30	0	5	11	13	6	ne.	Storm Warn. Display Sta.	
Long Valley.....	Morris.....	660	16	64.4	+1.5	91	19	36	14	2.52	-1.93	1.13	24	0	5	20	5	5	sw.	Arthur Barkman.	
Marlton, 1 mile W.....	Burlington.....	90	5	.....	.....	.....	.....	.....	.....	2.71	.....	2.00	24	0	5	18	7	5	sw.	David Griscom.
Mays Landing.....	Atlantic.....	50	2	.....	.....	.....	.....	.....	.....	2.91	.....	1.60	24	0	6	18	2	10	nw.	Elmer Earle.
Millville.....	Cumberland.....	60	6	.....	.....	.....	.....	.....	.....	2.76	.....	1.71	24	0	6	18	6	6	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	83	67.5	+1.2	89	10	43	16	1.80	-1.95	1.18	24	0	5	.....	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	5	66.1	.....	90	19†	42	15	5.59	.....	3.15	24	0	6	20	3	7	.....	James C. Long.
Newark.....	Essex.....	10	92	69.2	+2.7	89	8	48	30	4.13	+0.36	2.58	24	0	4	12	10	8	ne.	U. S. Weather Bureau.	
New Brunswick.....	Middlesex.....	86	92	68.2	+2.3	87	8†	43	12	3.35	-0.48	2.40	24-25	0	6	22	3	5	ne.	N. J. Experiment Station.	
New Milford††.....	Bergen.....	12	28	.....	.....	.....	.....	.....	.....	4.38	+0.14	2.39	24	0	4	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	63	64.7	+0.8	87	19	40	14	2.47	-1.33	0.76	24	0	7	14	7	9	se.	Irving J. Kern.	
Orange††.....	Essex.....	140	6	.....	.....	.....	.....	.....	.....	4.01	.....	1.91	24	0	7	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	75	68.1	+1.8	92	19	46	15	5.46	+1.31	2.67	24	0	7	16	8	6	w.	J. W. Cook.	
Pemberton.....	Burlington.....	55	17	68.3	+0.1	92	9	40	15	3.06	-1.11	1.37	23-24	0	5	17	9	4	nw.	Charles A. Doehrlert.	
Phillipsburg.....	Warren.....	182	63	64.4	-0.8	88	11	40	15†	3.46	-0.22	1.79	21	0	6	15	8	7	.....	Town Engineer.
Plainfield.....	Union.....	120	58	67.6	+1.9	90	19	44	15	3.98	-0.55	2.24	24	0	6	12	12	6	n.	S. K. Pearson.	
Plainsboro.....	Middlesex.....	110	5	.....	.....	.....	.....	.....	.....	3.85	.....	2.52	23-24	0	3	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	48	68.0	+1.8	90	10	42	15	1.43	-2.01	0.80	29-30	0	5	15	8	7	s.	N. J. Dept. of Conservation.	
Rahway.....	Union.....	20	7	.....	.....	.....	.....	.....	.....	3.90	.....	2.41	24-25	0	6	13	6	11	se.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	29	67.4	+2.0	90	19	43	15	3.77	-0.35	1.60	24	0	6	15	9	6	s.	George P. Kirsten.	
Runyon††.....	Middlesex.....	18	23	66.6	+1.9	92	19†	34	15	2.38	-1.76	1.18	24-25	0	5	21	6	3	w.	N. J. Dept. of Conservation.	
Rutherford.....	Bergen.....	51	2	66.8	.....	88	19	43	14	4.56	.....	2.20	24	0	8	22	2	6	.....	Harold Scott.
Sandy Hook.....	Monmouth.....	15	48	69.5	+2.0	88	10	54	14	2.63	-0.80	1.26	30	0	4	13	13	4	w.	U. S. Coast Guard.	
Somerville, 2 mi. N.....	Somerset.....	385	63	68.6	+2.7	90	18	42	15	2.03	-1.75	1.19	24-25	0	5	18	7	5	.....	Joseph Starkman.
Sussex.....	Sussex.....	450	51	64.9	+0.6	90	19	35	15	2.00	-2.01	0.50	24	0	7	11	3	16	w.	Marshall Hunt.	
Toms River.....	Ocean.....	33	25	.....	.....	.....	.....	.....	.....	3.35	-0.59	1.28	29-30	0	5	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	74	69.1	+2.2	90	19	47	14	1.95	-1.45	1.32	24	0	5	9	14	7	n.	U. S. Weather Bureau.	
Trenton No. 2.....	do.....	105	16	68.7	+1.9	89	10†	45	15	2.22	-2.84	1.29	24	0	5	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	24	53	68.4	+1.5	92	10	45	15	3.00	-0.38	1.55	30	0	7	16	5	9	sw.	John H. Brown.	
Vineland.....	Cumberland.....	110	66	.....	.....	.....	.....	.....	.....	2.38	-1.14	1.58	24	0	4	16	9	5	ne.	Robert Jones.
Westfield.....	Union.....	145	7	.....	.....	.....	.....	.....	.....	3.39	.....	1.94	24	0	4	20	3	7	s.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	28	.....	.....	.....	.....	.....	.....	5.01	+0.83	2.33	24	0	4	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	.....	10	76	69.8	+3.0	89	19	47	30	2.41	-0.98	0.91	30	0	4	13	9	8	n.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	76	71.4	+3.4	91	19	50	14	3.22	+0.08	2.08	24	0	4	12	12	6	e.	U. S. Weather Bureau
For the State.....	.....	.....	..	67.5	+1.6	92	9†	34	15	3.34	-0.44	3.58	24	0	6	17	6	7	ne.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for September 1946

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast			T.		T.		.07				T.			.01							.51		T.	.38					.03	.93	1.93	
Barneget City ⁴	do.																																1.92
Bass River	do.		.20	T.		.03		.16							T.							.67		*	.73						.80	2.31	
Belleplain	Tuckahoe		.09					.10														.63	T.	T.	.74						.51	3.14	
Belmar ²	Coast		.35	T.					T.	T.												1.58		.02	.66					.05	1.37	3.13	
Belvidere	Delaware											.07										.65			1.75						.80	3.13	
Berlin	Mullica		.15																		.06	.65			1.75					.42	.10	3.13	
Boonton ³	Passaic		.12									T.										.03	1.24	T.	.07	3.46					1.23	2.46	
Bridgeton	Delaware		.08					T.	.02				.81	.04								.76			.53	.08				.14		2.57	
Brooklawn	do.																					.41		T.	1.65					.51		1.93	
Burlington	do.		.05																			.38			1.10	.23				.17		5.49	
Canoe Brook ³	Passaic		.12																			.09	1.35		.05	2.87				1.01		2.45	
Canton	Delaware		.44																			.65	T.		.05	.61				.70		5.63	
Cape May ^{2†}	Coast																					.93	.99	.05	.68	1.98				.90		6.22	
Charlotteburg	Passaic		.06									.04										.01	1.54		.04	3.54				.92		2.76	
Chatham ³	do.		.16						.01			T.										.52			1.23	T.				.86		2.66	
Chatsworth	Coast		.15																			.41	.06	T.	1.53	.02				T.	.40	2.37	
Clayton	Delaware		.24																			.78			1.12	.04				.29		2.70	
Clinton	Raritan		.14												.10							.59	.04		.81	.02				1.14		4.88	
Culvers Lake	do.																					1.40	.07	T.	1.73	1.20				.25		6.15	
Elizabeth	Coast		.20						.03													.71			3.42					1.43		2.35	
Essex Fells	Passaic		.09																			.41	.03		.78	.08				.79		3.68	
Flemington	Raritan		.26																			.63			.60	.60				1.55			
Freehold	do.		.40																														
Hammonton	Mullica		.41					T.														.60		.11	1.06	.43				.42		3.03	
Hightstown	Raritan		.15							T.												.57		T.	1.84	.19				.36		3.11	
Indian Mills	Mullica		.09					T.						T.								.57		T.	1.40	.05				.55		2.66	
Jersey City ²	Coast		.12																			.47			1.64					.90		3.13	
Lakewood	Metedeconk		.46																			.68		.04	.20	.86				1.02		3.26	
Lambertville	Delaware		.16																			.43		T.	1.13	.03				.53		2.28	
Layton	do.											.46										1.87			1.23					1.24		4.80	
Little Falls ³	Passaic		.41						.01													.21	1.37		.03	3.00						5.03	
Long Branch ^{2†}	Coast		.32	T.					.02			.02										1.08			.72					T.	2.14	4.28	
Long Valley ³	Raritan							.02															1.02	.05		1.13				.30		2.52	
Manville	do.		.23																			1.00			2.70					T.	.23	3.93	
Marlton	Delaware		.03																			.45			1.80	.20				.23		2.71	
Mays Landing	Gt. Egg Harbor		.02					.04	T.	T.	T.	T.										.86			.33	1.27		T.		.39		2.91	
Midland Park	Passaic		.16						.01													1.07			3.13				.03	1.70		6.10	
Millville ^{2†}	Maurice		.06					.02						.05								.56			1.71					.36		2.76	
Moorestown ³	Delaware		.05																			.10	.25		T.	1.18			.22		1.80		
Morris Plains	Passaic		.05																			1.27	.06		1.42	1.73			1.06		5.59		
Newark ¹	Coast		.18	T.						T.												1.08			2.58				T.	.29		4.13	
New Brunswick	Raritan		.11																			.65	.12		.81	1.59				.07		3.35	
New Milford ^{2†}	Hackensack		.20																			.83			2.39					.96		4.38	
Newton	Delaware								.05			.40										.65	.01		.76	.01				.59		2.47	
Orange ^{2†}	Passaic		.06	.13					.01													1.28			1.91					.15	.47	4.01	
Paterson ²	do.		.11	.05																		1.26		.03	2.67				.04	1.30		5.46	
Pemberton	Delaware			.02																		.49	T.	T.	1.37	.89				.29		3.06	
Phillipsburg	do.			T.								T.	.05									1.79			T.	1.17	.04			.03	.38	3.46	
Plainfield	Raritan		.29						.01													.97	.01		T.	2.24					.46	3.98	
Plainsboro	do.		.23																			1.10			T.	2.52	T.					3.85	
Pleasantville ³	Coast		.02					.06														.05			T.	.50	T.			.80		1.43	
Rahway ^{2†}	Rahway		.10																			1.20				2.41			*	.19		3.90	
Ridgefield	Hackensack		.15	.33																		.73		.05	1.60				T.	.91		3.77	
Ringwood	Passaic		.06						.01		.01											.12	1.04		.06	3.06				1.89		6.25	
Runyon	Coast		.14																			.68			.92	.26				.38		2.38	
Rutherford	Passaic		.58	.13					.01													.99	.01		2.19	.01				.64		4.56	
Sandy Hook ^{2†}	Coast		.15																			.59			.63				1.26		2.63		
Somerville	Raritan		T.																			.50			1.15	.04			.22		2.03		
Sussex	Hudson								.08		.38											.43	.10		.50	.08				.43		2.00	
Swedesboro	Delaware																					.56			1.51	.05				.88		3.00	
Toms River	Coast		.30																														

Daily Temperatures for September 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	76	75	70	69	70	71	74	76	75	81	82	73	66	65	75	73	77	78	79	78	74	77	75	75	79	73	74	74	70	70	74.1
	Minimum...	60	67	61	57	63	66	65	68	70	71	68	64	62	52	52	55	58	63	62	66	67	69	69	68	62	62	68	66	47	...	63.2
Barnegat City†.....	Maximum...																															
	Minimum...																															
Belleplain.....	Maximum...	79	83	79	74	73	75	81	88	89	90	85	81	79	70	78	81	85	87	86	83	81	84	78	82	82	81	82	78	75	70	80.3
	Minimum...																															
Belvidere.....	Maximum...	84	80	77	77	74	72	86	89	91	89	80	76	73	69	81	83	89	90	92	89	75	85	77	75	85	82	83	81	76	70	81.0
	Minimum...	66	53	50	44	51	50	55	60	66	69	63	52	49	40	41	42	48	55	56	56	63	58	62	66	61	62	62	59	50	...	54.8
Boonton/......	Maximum...	79	79	73	74	74	71	82	85	85	83	76	73	68	68	78	79	86	86	90	85	70	84	74	74	82	80	84	79	73	59	77.8
	Minimum...	43	51	53	49	52	51	55	59	64	64	65	50	48	42	42	42	43	51	51	52	55	55	56	57	61	50	51	48	58	57	52.5
Bridgeton.....	Maximum...	80	81	75	77	75	80	84	86	85	89	80	81	70	68	75	77	83	86	85	80	78	84	78	79	79	79	79	79	75	69	79.3
	Minimum...	51	58	59	51	58	58	62	63	67	69	70	58	53	48	47	48	51	56	53	58	62	64	70	66	56	55	60	62	52	...	58.3
Burlington.....	Maximum...	82	82	82	75	75	77	85	88	90	89	87	80	73	72	79	80	87	89	89	88	81	86	82	81	82	85	86	85	76	85	82.6
	Minimum...	50	56	72	70	57	59	61	65	74	70	68	60	54	65	45	49	52	55	54	61	75	60	64	68	61	77	78	63	60	55	62.0
Canoe Brook/......	Maximum...	83	82	74	76	74	73	85	89	86	87	77	76	67	71	78	81	88	86	92	86	69	85	76	76	84	82	86	78	72	59	79.3
	Minimum...	44	52	53	40	51	48	53	57	67	66	63	47	47	37	37	38	43	54	51	59	54	56	60	62	64	48	49	54	59	57	52.2
Cape May*.....	Maximum...																															
	Minimum...																															
Charlotteburg.....	Maximum...	80	79	72	73	73	71	84	85	85	84	79	75	71	70	77	79	84	89	89	89	81	83	81	73	81	82	82	81	79	68	79.3
	Minimum...	40	41	49	43	53	44	55	58	68	67	63	46	44	35	34	40	42	38	36	49	64	59	54	68	60	47	44	48	52	50	49.7
Chatsworth.....	Maximum...	86	83	75	75	74	82	85	91	90	91	88	78	71	69	77	81	87	91	88	85	79	85	80	79	82	83	86	82	75	71	81.6
	Minimum...	44	52	56	48	58	63	61	65	67	70	69	50	52	44	42	42	45	50	48	53	65	67	67	68	68	58	48	55	53	55	56.0
Clayton.....	Maximum...	81	83	81	75	90	80	85	89	88	90	84	79	78	79	79	81	82	84	88	83	79	84	78	80	83	81	85	81	74	61	81.5
	Minimum...	52	58	57	49	67	57	61	64	69	73	52	61	56	47	55	56	57	62	61	64	63	61	60	68	68	63	62	60	60	54	59.9
Elizabeth.....	Maximum...	84	84	79	77	76	74	86	89	85	91	85	76	72	73	81	84	88	86	92	90	75	84	79	77	84	83	85	80	73	68	81.3
	Minimum...	48	55	53	49	55	55	59	62	68	67	70	68	51	47	46	46	51	56	55	58	60	59	62	66	65	53	52	58	59	55	56.9
Flemington.....	Maximum...	83	83	77	74	75	73	88	90	88	85	86	75	68	72	79	84	89	90	92	87	78	87	81	78	85	83	87	82	74	70	81.4
	Minimum...	48	55	54	48	55	54	55	60	68	67	66	53	51	45	45	45	52	56	55	56	61	56	63	64	63	54	52	56	54	55.7	
Freehold.....	Maximum...	81	82	78	73	73	75	84	88	90	89	85	74	66	68	78	80	86	88	90	88	78	84	78	76	83	80	85	77	68	64	79.6
	Minimum...	50	54	56	47	58	55	60	64	68	68	67	53	54	46	46	48	52	58	58	61	59	63	66	67	63	54	58	52	53	53	56.9
Hammonton.....	Maximum...	81	82	74	75	76	78	87	84	82	91	81	79	70	72	68	83	87	87	81	80	75	86	79	75	85	83	85	82	79	71	80.0
	Minimum...	64	61	52	41	59	53	57	68	70	61	68	50	48	40	39	58	45	63	61	61	61	66	64	64	61	51	46	54	62	52	56.7
Hightstown.....	Maximum...	81	82	75	74	73	75	85	88	87	89	80	73	66	69	81	82	89	90	91	86	72	85	79	77	84	82	85	78	70	67	79.8
	Minimum...	49	57	55	46	57	53	59	63	67	67	65	50	52	44	41	42	48	52	53	55	59	58	60	66	66	59	51	56	54	50	54.9
Indian Mills.....	Maximum...	80	84	75	76	75	81	86	89	89	90	82	79	68	71	79	83	87	88	88	84	77	85	79	78	81	81	85	81	75	69	80.8
	Minimum...	45	55	56	46	55	56	60	65	65	70	66	49	52	44	39	40	45	49	48	52	62	58	64	68	66	52	47	56	57	52	54.6
Jersey City*.....	Maximum...	79	78	70	75	70	69	78	82	75	54	78	70	63	70	76	77	82	83	88	83	70	82	72	72	80	78	78	76	69	65	75.7
	Minimum...	57	62	54	50	57	60	61	62	67	69	64	57	52	46	50	51	55	60	60	62	66	62	66	66	64	57	58	58	59	50	58.7
Lakewood.....	Maximum...	82	82	75	72	73	75	84	89	86	91	84	75	65	69	79	81	87	86	89	86	79	85	79	76	83	79	84	77	69	68	79.6
	Minimum...	48	56	57	50	59	60	62	66	69	60	68	53	56	46	44	44	50	53	54	56	57	60	64	67	64	54	49	57	53	54	56.3
Lambertville.....	Maximum...	80	79	75	72	73	73	84	84	83	85	77	73	70	69	74	81	84	85	91	84	72	83	81	75	79	80	86	79	75	69	78.5
	Minimum...	48	55	56	47	52	53	56	60	66	70	67	52	51	41	43	42	48	55	52	54	62	60	63	68	65	51	52	57	60	50	55.2
Layton.....	Maximum...	78	78	72	74	72	69	85	85	88	88	78	70	67	71	77	80	84	88	90	87	70	83	73	72	82	80	84	81	75	67	78.3
	Minimum...	44	48	44	37	47	44	51	57	62	66	61	47	39	38	37	36	45	66	53	51	58	58	59	65	54	47	51	53	49	48	50.5
Little Falls/......	Maximum...	82	80	76	74	75	73	84	87	87	86	80	74	68	73	80	82	87	87	92	86	75	85	75	74	83	81	84	79	72	58	79.3
	Minimum...	47	56	53	45	50	52	56	61	67	67	67	52	49	44	42	44	48	53	54	56	58	59	60	65	64	52	52	55	57	55	54.7
Long Branch*.....	Maximum...	80	80	73	74	72	73	78	84	80	90	81	73	67	69	77	77	83	83	86	83	72	80	73	75	80	78	80	74	68	68	77.0
	Minimum...	52	59	55	55	62	62	62	68	68	70	60	56	55	55	47	48	55	56	59	59	60	61	64	68	61	58	54	58	61	47	58.5
Long Valley/......	Maximum...	78	79	73	74	72	70	83	87	86	85	74	66	71	77	80	85	88	91	87	69	82	74	75	82	79	84	78	73	58	77.9	
	Minimum...	44	49	51	41	49	46	53	56	63	65	61	49	45	36	36	38	44	48	49	50	57	58	57	62	63	49	47	51	57	57	51.0
Moorestown*.....	Maximum...	81	82	74	74	75	78	85	88	88	89	81	76	67	70	77	79	86	87	88	83	75	85	80	80	83	79	85	81	71	61	79.6
	Minimum...	50	56	52	47	56	59	61	67	67	69	56	53	48	45	44	43	50	53	53	56	61	58	62	69	60	51	50	58	57	49	55.4
Morris Plains.....	Maximum...	79	79	73	72	72	83	86	86	84	83	78	72	69	77	7																

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. LI.

OCTOBER 1946

No. 10

GENERAL SUMMARY

This was one of the four warmest Octobers of record in New Jersey. The highest temperatures, however, were much below the extremes of October, 1941, when readings as high as 95° were registered during the first week of the month at many stations throughout the State. There was light frost on several mornings but no killing frost except in the extreme north part of the State.

With rainfall only 41 percent of normal, it was the driest October since 1928. The rain occurred mostly during the period from the 9th to 13th, and from the 26th to 28th, with some showers about the 18th. Soil moisture was adequate for current needs, however. With the large number of clear days and much sunshine, the month was ideal for the harvesting of crops and all outdoor activities.

There were no destructive storms though winds reached gale force in some coastal areas on the 9th.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 43 stations, was 59.0°, which was 4.3° above normal. The highest temperature was 90° at four stations on the 6th, and the lowest, 24°, at Sussex on the 14th. The highest monthly mean temperature was 63.6° at Belleplain, and the lowest, 53.9° at Phillipsburg. The temperature departure from the normal for the year 1946, to date, for the State is +1.5°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 58 stations, was 1.49 inches, which was 2.13 inches below normal. The greatest monthly precipitation was 2.59 inches at Charlotteburg, and the least, 0.86 inch at Burlington. The greatest amount of precipitation in any 24 consecutive hours was 1.36 inches at Long Valley on the 12th. The average for the Highlands was 2.23 inches; for the Red Sandstone Plain, 1.51 inches; for the Southern Interior, 1.31 inches; and for the Sea Coast, 1.18 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -4.91 inches; Red Sandstone Plain, -1.02 inches; Southern Interior, -4.39 inches; Sea Coast, -3.51 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 4, 5, 22, 23, 24, 25, 26, 27, 28.

THUNDERSTORMS: 12.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.51	28	29.61	18	15.6	43	ne.	9†	87	71	78	75	138
Long Branch.....	30.51	28	29.56	18	11.0	38	nw.	19	79	62	69	66	183
Newark.....	30.53	28	29.56	18	.....	34	sw.	12	82	52	71	...	179
Trenton.....	30.50	28	29.56	18	8.0	24	ne.	8	82	54	67	56	170

COMPARATIVE DATA FOR OCTOBER

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	54.2	82	29	4.20	0	.....	.....	.....	.....
1886.....	55.6	88	21	3.22	0	.....	.....	.....	.....
1887.....	52.3	89	21	2.61	0	7	.....	.....	.....
1888.....	49.2	73	25	4.73	0	12	.....	.....	.....
1889.....	50.8	82	23	3.80	0	11	.....	.....	.....
1890.....	53.9	81	24	6.33	0	13	9	8	14
1891.....	52.8	92	18	3.44	0	8	11	11	9
1892.....	53.6	85	21	0.52	0	4	14	12	5
1893.....	55.2	85	17	4.22	0	7	15	7	9
1894.....	55.3	87	27	5.67	0	10	12	7	12
1895.....	49.9	83	18	3.60	0	5	19	7	5
1896.....	51.5	82	21	2.24	0	8	11	8	12
1897.....	55.8	95	22	2.43	0	7	14	8	9
1898.....	56.5	88	24	5.76	0	10	13	9	9
1899.....	56.6	86	18	2.72	0	6	13	10	8
1900.....	59.9	92	19	3.70	0	10	10	8	13
1901.....	54.4	82	21	1.93	0	4	17	8	6
1902.....	56.0	80	20	6.39	0	8	15	7	9
1903.....	55.9	86	24	8.92	0	8	13	9	9
1904.....	51.9	89	15	3.78	0	5	20	6	5
1905.....	55.5	90	17	2.71	0	7	18	7	6
1906.....	55.0	80	11	4.46	0	11	8	9	14
1907.....	50.6	80	18	4.46	0	7	22	5	4
1908.....	57.3	92	19	2.71	0	8	15	5	11
1909.....	51.2	84	18	1.18	0	8	17	7	7
1910.....	57.2	90	18	3.15	0	7	15	8	8
1911.....	53.9	80	18	5.49	0	12	10	9	12
1912.....	57.0	88	25	3.30	0	5	17	8	6
1913.....	57.8	83	25	7.79	0	11	12	9	10
1914.....	58.1	88	19	1.99	0	5	13	9	9
1915.....	56.2	84	23	3.03	0	9	17	7	7
1916.....	55.1	92	23	1.37	0	4	18	8	5
1917.....	50.7	84	22	6.99	0	10	15	8	8
1918.....	57.0	84	22	1.25	0	8	16	9	6
1919.....	59.0	92	25	3.43	0	13	9	8	14
1920.....	59.0	87	28	1.80	0	5	20	5	6
1921.....	54.1	82	16	0.97	0	5	18	7	6
1922.....	56.6	92	18	1.48	0	7	19	6	6
1923.....	53.9	81	21	4.25	0	8	16	8	7
1924.....	54.4	84	16	0.31	0	1	23	6	2
1925.....	49.1	84	12	4.59	0	11	9	9	13
1926.....	53.1	90	17	4.08	0	11	13	8	10
1927.....	56.8	94	23	7.82	0	10	18	5	8
1928.....	56.1	90	16	1.19	0	6	17	9	5
1929.....	52.3	80	17	4.61	0	8	15	8	8
1930.....	52.6	89	12	1.95	0	6	17	7	7
1931.....	53.3	92	24	2.76	0	8	17	7	7
1932.....	56.2	89	21	5.85	0	10	13	6	12
1933.....	53.6	84	18	2.04	T.	6	18	7	6
1934.....	52.6	82	21	2.49	T.	6	17	6	8
1935.....	54.8	84	23	4.50	0	8	18	7	6
1936.....	55.6	82	9	3.40	0	8	15	6	10
1937.....	53.2	84	15	5.27	T.	10	12	7	12
1938.....	56.2	93	24	2.47	0	7	19	5	7
1939.....	54.9	93	19	4.24	0	9	14	6	11
1940.....	51.0	82	11	2.36	0.7	8	15	7	9
1941.....	58.9	97	17	1.90	0	8	15	7	9
1942.....	56.1	87	21	3.43	0	9	16	6	10
1943.....	53.5	87	18	7.51	0	11	12	7	12
1944.....	53.7	88	18	2.41	0	6	18	5	8
1945.....	54.2	86	21	2.51	0	9	14	7	10
1946.....	59.0	90	24	1.49	0	7	17	5	9
Period.....	54.7	97	9	3.62	T.	8	15	8	8

Climatological Data for October 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, 0.1 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	73	61.2	+4.3	81	31	45	1	1.44	-1.76	0.96	9-10	0	6	16	5	10	ne.	U. S. Weather Bureau.
Barneget City.....	Ocean.....	36	7	63.6	+8.2	86	6	41	4†	2.19	-1.17	0.65	9-10	0	8	22	1	8	s.	U. S. Coast Guard.
Belleplain.....	Cape May.....	49	52	63.6	+8.2	86	6	41	4†	2.19	-1.17	0.65	9-10	0	8	22	1	8	s.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	5	58.2	+3.2	89	6	35	14†	2.48	-1.15	0.98	26	0	8	15	5	11	se	City Water Dept.
Belvidere.....	Warren.....	289	54	58.2	+3.2	89	6	35	14†	2.48	-1.15	0.98	26	0	8	15	5	11	se	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	5	58.2	+3.2	89	6	35	14†	2.48	-1.15	0.98	26	0	8	15	5	11	se	Samuel H. McCulley.
Boonton.....	Morris.....	280	56§	56.5	+4.1	87	6	31	26	1.37	-2.17	0.38	12	0	7	24	2	5	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	63	60.1	+3.1	82	6†	37	23	1.40	-1.97	0.48	9	0	9	19	6	6	ne.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	5	61.8	+4.4	86	6	36	22†	0.92	-0.43	0.30	9-10	0	3	17	8	6	w.	C. D. Scott.
Burlington.....	Burlington.....	12	60§	61.8	+4.4	86	6	36	22†	0.86	-2.62	0.30	11-12	0	4	17	8	6	w.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	16	57.6	+5.0	90	6	30	14†	1.38	-2.26	0.41	11-12	0	7	18	4	9	w.	N. J. Dept. of Conservation
Cape May.....	Cape May.....	17	58	62.8	+4.6	81	7†	44	23	2.59	-1.65	1.08	11-12	0	8	23	2	6	w.	Richard F. Umfrid, Jr.
Charlotteburg††.....	Passaic.....	760	54	56.2	+4.7	86	6	28	22	2.59	-1.65	1.08	11-12	0	8	11	1	19	w.	Newark Water Dept.
Chatham.....	Morris.....	185	42	59.1	.....	90	6	32	23	1.42	-2.38	0.30	13	0	11	21	9	1	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	6	59.1	.....	90	6	32	23	1.16	-0.62	0.62	9-10	0	4	15	9	7	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	33	61.4	+5.0	86	6	38	16	1.43	-1.87	0.39	9-10	0	9	16	7	8	sw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	3	.....	.....	.....	.....	.....	.....	2.40	-0.69	0.69	10	0	7	20	1	10	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	45	.....	.....	.....	.....	.....	.....	2.17	-1.91	0.67	26	0	6	15	5	5	sw.	L. S. Dupue.
Elizabeth.....	Union.....	34	67	60.8	+5.5	89	6	34	28	1.50	-2.21	0.39	11-12	0	7	20	1	10	ne.	Union County Park Comm.
Elmington, 2 mi. N.E.....	Hunterdon.....	140	60§	59.6	+3.9	90	7	34	22	2.13	-1.81	0.79	10	0	8	18	5	8	nw.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	42§	59.7	+4.7	87	7	34	15	1.68	-2.06	1.05	9-10	0	6	21	5	5	sw.	Moreau Plant Co.
Hammononton.....	Atlantic.....	95	40§	59.2	+3.0	88	6†	31	21	1.52	-2.07	0.58	12	0	6	16	7	8	sw.	J. G. Wilson.
Highstown.....	Mercer.....	110	53	58.6	+3.7	86	7	33	22	1.64	-2.00	0.87	9-10	0	7	18	8	5	sw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	57	58.6	+3.8	88	6†	31	22†	1.27	-2.22	0.38	9-10	0	8	15	11	5	ne.	Edward Entwistle.
Jersey City.....	Hudson.....	81	48	58.4	+2.0	84	6	40	3†	0.96	-2.52	0.25	12†	0	7	18	5	8	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	42	58.8	+4.3	85	6	34	22	1.27	-2.72	0.76	10	0	6	14	7	10	sw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	59	59.2	+4.8	90	6	34	14†	2.08	-1.37	0.61	9-10	0	10	20	6	5	s.	George Bailey.
Layton††, 3 miles NW.....	Sussex.....	480	45	56.2	+5.3	89	6	29	14†	1.87	-1.73	0.81	11-12	0	8	15	1	15	sw.	A. M. Dupue.
Little Falls.....	Passaic.....	157	43	58.8	+4.6	89	6	33	22	1.52	-2.64	0.56	11-12	0	9	17	5	9	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	38	59.6	+4.3	86	6	38	22	1.06	-2.50	0.55	10	0	7	17	4	10	sw.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	16	56.2	+4.7	87	6	30	22†	2.37	-1.07	1.36	12	0	6	17	9	5	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	5	.....	.....	.....	.....	.....	.....	1.12	-0.41	0.91	9-10	0	7	18	4	9	sw.	David Griscom.
Mays Landing.....	Atlantic.....	50	2	.....	.....	.....	.....	.....	.....	1.24	-0.35	0.35	11-12	0	7	23	1	7	sw.	Elmer Earle.
Millville.....	Cumberland.....	60	6	.....	.....	.....	.....	.....	.....	1.21	-2.20	0.22	12†	0	12	14	1	13	ne.	Paul Ritchie.
Mooretown.....	Burlington.....	62	83	58.6	+3.7	86	6	35	15†	2.04	-0.85	0.85	11-12	0	7	19	5	7	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	5	57.7	.....	86	6	31	22†	2.04	-0.85	0.85	11-12	0	7	19	5	7	.....	James C. Long.
Newark.....	Essex.....	10	92	60.0	+4.4	88	6	39	23	1.03	-2.76	0.30	11-12	0	7	14	4	13	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	92	59.0	+4.2	85	6†	36	22†	1.40	-2.16	0.72	9-10	0	7	20	3	8	ne.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	28	.....	.....	.....	.....	.....	.....	1.23	-1.98	0.56	12	0	6	15	3	10	sw.	Hackensack Water Co.
Newton.....	Sussex.....	769	63	56.2	+3.5	85	6	32	14	1.80	-1.86	0.95	27-28	0	7	18	3	10	sw.	Irving J. Kern.
Orange††.....	Essex.....	140	6	.....	.....	.....	.....	.....	.....	1.08	-0.44	0.44	12	0	7	18	3	10	sw.	County Engineer.
Pamerson.....	Passaic.....	95	75	59.2	+4.2	89	6	35	22†	1.60	-2.26	0.86	11-12	0	6	15	9	7	s.	J. W. Cook.
Pemberton.....	Burlington.....	55	17	59.2	+3.0	86	6†	32	23	1.09	-2.37	0.48	9-10	0	6	17	7	7	sw.	Charles A. Doehlert.
Phillipsburg.....	Warren.....	182	63§	53.9	+0.4	83	6	30	20	2.28	-1.24	0.73	26	0	6	15	8	8	.....	Town Engineer.
Plainfield.....	Union.....	120	58	59.1	+5.0	88	6	34	22	1.69	-2.17	0.55	10	0	6	13	9	9	n.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	5	.....	.....	.....	.....	.....	.....	1.40	-1.92	0.70	9-10	0	5	17	7	7	e.	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	48	59.3	+4.2	84	6	32	23	1.55	-1.92	0.70	9-10	0	8	14	6	11	sw.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	7	.....	.....	.....	.....	.....	.....	1.27	-2.49	0.53	11-12	0	6	15	10	6	s.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	29	58.4	+4.5	86	6	36	3†	1.02	-2.49	0.53	11-12	0	6	15	10	6	s.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	23	58.4	+5.5	87	5†	27	25	2.02	-1.72	1.01	9-10	0	7	22	7	2	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	2	59.4	.....	88	6	37	3†	1.31	-0.72	0.72	11-12	0	7	13	4	14	.....	Harold Scott.
Sandy Hook.....	Monmouth.....	15	48	61.2	+4.3	83	6	46	1†	0.94	-0.57	0.57	9-10	0	8	14	15	2	w.	U. S. Coast Guard.
Somerville.....	Somerset.....	385	63	58.6	+4.4	88	7	33	14†	1.50	-1.80	0.55	10	0	7	15	6	10	sw.	William E. Haver.
Sussex.....	Sussex.....	450	51	55.2	+2.4	86	6	24	14	2.30	-1.02	0.70	25-26	0	8	14	1	16	sw.	Marshall Hunt.
Toms River.....	Ocean.....	33	25	.....	.....	.....	.....	.....	.....	0.88	-3.38	0.48	9-10	0	6	15	9	7	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	74	60.5	+4.9	86	6	42	22	1.23	-1.55	0.53	9-10	0	8	13	6	12	s.	U. S. Weather Bureau.
Trenton No. 2.....	.....do.....	105	16	60.2	+5.3	88	6	39	14†	1.39	-1.95	0.51	10	0	7	17	7	7	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	53	59.5	+3.0	84	30†	36	15†	1.07	-2.52	0.69	10	0	4	20	3	8	e.	John H. Brown.
Vineland.....	Cumberland.....	110	66	.....	.....	.....	.....	.....	.....	1.16	-2.11	0.52	9	0	8	17	9	5	w.	Robert Jones.
Westfield.....	Union.....	145	7	.....	.....	.....	.....	.....	.....	1.17	-0.34	0.34	10	0	7	18	3	10	sw.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	28	.....	.....	.....	.....	.....	.....	1.18	-1.98	0.67	12	0	5	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	.....	10	76	61.9	+5.6	87	6	45	1	0.79	-2.74	0.28	11-12	0	6	15	6	10	sw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	76	62.4	+4.6	87	6	45	14	1.22	-1.59	0.35	11-12	0	8	13	7	11	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	59.0	+4.3	90	6†	24	14	1.49	-2.13	1.36	12	0	7	17	5	9	sw.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, *, †, ‡, etc., appearing in the table indicate the number of days missing; for example, † represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasntville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for October 1946

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast								T.	.29	.81	.05	.11							.14		T.						.04					1.44
Barnegat City ⁴	do.																			.10	.02							.04					1.49
Bass River	do.								T.	T.	.41	.65	.14	.21						.34								.10	.10	.24			2.19
Belleplain	Tuckahoe										.21	.59	.01	.21						.13								.06	T.	.10	.05		1.27
Belmar ²	Coast	T.									.03	.20	.02	.19	.68					.28		T.						.98	T.	.01			2.48
Belvidere	Delaware											.09	.04	.38	.36													.28	T.	T.			0.90
Berlin	Mullica											.25	.20	.17						T.		T.						.16	.21	T.	.18		1.37
Boonton ³	Passaic	T.									.48	.15	.06	.12	.23					.12		T.	.08					.16	T.		.05		1.40
Bridgeton	Delaware											.43			.22													.27	T.				0.92
Brooklawn	do.													.30	.21					.10								.25					0.86
Burlington	do.											.08	T.	.41	.18						.29							.28	.01		.13		1.38
Canoe Brook ³	Passaic										.19	.10	.30	.31	.40						.10							.25	T.	.04			1.75
Canton	Delaware													.31	.40													.25	T.				
Cape May ^{2†}	Coast																																
Charlotteburg	Passaic	.04										.12	.03	1.08	.48					.35								.43		.06			2.59
Chatham ³	do.	.02										.09	.01	.27	.30						.26		.01					.06	.27	.01	.12		1.42
Chatsworth	Coast										T.	.62		.16						.23								.15					1.16
Clayton	Delaware										.11	.39	.01	.14	.31					.12		T.						.31	.01	.03			1.43
Clinton	Raritan											.69	.04	.43	.38					T.	.35		T.										2.40
Culvers Lake	do.											.33	T.	.20	.43					.36	.18							.67		T.			2.17
Elizabeth	Coast											.32		.39	.17					.13								.23		.16	.10		1.50
Essex Fells	Passaic	.05										.06		.74						.24								.36		.15			1.60
Flemington	Raritan											.79	.05	.28	.30					.01	.24			.04				.42					2.13
Freehold	do.											1.05		.22	.07					.09								.21		.04			1.68
Hammon	Mullica											.04	.39	.06	.58					.17		T.						.28					1.52
Hightstown	Raritan											.87		.25	.19					.14	T.							.12		.05	.02		1.64
Indian Mills	Mullica											.01	.38	T.	.32	.21				.15			T.					.09	.05	.06			1.27
Jersey City ²	Coast											.14	.02	.25						.25								.12		.12	.06		0.96
Lakewood	Metedeconk											T.	.76	.02	.12	.12				.18								.07		T.			1.27
Lambertville	Delaware	.01										.61	.02	.38	.36					.03	.23		.01	.02				.41					2.08
Layton	do.											.02		.37	.44					.38	.01								.10	.02			1.87
Little Falls ³	Passaic	.02										.04	.01	.56	.25						.22							.33	.02		.07		1.52
Long Branch [†]	Coast											.04	.55	.02	.26	T.				.09	T.							.09			.01		1.06
Long Valley ³	Raritan											.20			1.36						.45								.30		.06		2.37
Manville	do.											1.05	.12	.40							1.05							.48		.03			3.13
Marlton	Delaware											.04	.37		.19	.23				.08								.19		.02			1.12
Mays Landing	Gt. Egg Harbor											.30	.27	.04	.35	.11				.12		T.	T.					.05		T.	T.	T.	1.24
Midland Park	Passaic											.07	.02	.90						.27								.28		.04			1.58
Millville ^{2†}	Maurice																																
Moorestown ³	Delaware	.02										.04	.17	.19	.20	.22	.01				.05		T.					.04	.22	.02	.03		1.21
Morris Plains	Passaic											.14	.01	.85	.20					.35	T.		T.						.49				2.04
Newark ¹	Coast											T.	.22	.06	.25					.14	T.							.19		.15	.02		1.03
New Brunswick	Raritan											T.	.72		.20	.12				.02	.10							.22		.02			1.40
New Milford ^{2†}	Hackensack											.05	.03	.56						.22								.28		.09			1.23
Newton	Delaware											.04	.21	.02	.15	.60				.43		T.	T.						.95			T.	1.80
Orange ^{2†}	Passaic											.07	.14	.44						.17								.17		.08	.01		1.08
Paterson ²	do.											T.	.04	.18	.68					.25								.38		.07	T.		1.60
Pemberton	Delaware											.48	.03	.23	.19					.12								.04	T.	T.	T.		1.09
Phillipsburg	do.	T.										.48	.07	.70						.25		T.						.73		.05			2.28
Plainfield	Raritan											T.	.55		.36	.03				.18		T.						.31		.26	T.		1.69
Plainsboro	do.													1.12	.14					.14	T.												1.40
Pleasantville ³	Coast	.04										.70	.43	.17	.07						.11			.01					.02	T.			1.55
Rahway ^{2†}	Rahway											T.	.51	*	.32					.02	.14							.18		.08	.02		1.27
Ridgefield	Hackensack											.09			.53	T.				.14								.19		.05	.02		1.02
Ringwood	Passaic	.06										.10	.03	.64	.43						.43							.42	.04	.01	.08		2.24
Runyon	Coast											1.01	.20	.05	.04					.12								.10		.50			2.02
Rutherford	Passaic											.11	*	.72						.18								.21		.07	.02		1.31
Sandy Hook ^{2†}	Coast											.03	.54	.03	.15					.09								.08		.01	.01		0.94
Somerville	Raritan											.58	*	.34	.25					.23								.29	T.	.01	T.		1.50
Sussex	Hudson											T.	.24	T.	.18	.54				.36	.22	T.	T.					.70		.03	.03		2.3

Daily Temperatures for October 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum... 56	65	67	72	71	75	74	70	62	62	67	68	62	60	62	66	67	68	67	60	60	64	66	68	67	66	71	71	78	81	67.1	
	Minimum... 45	49	45	55	56	54	60	58	58	60	62	55	46	45	45	51	60	63	53	51	52	47	48	54	61	63	61	64	64	64	55.2	
Barnegat City†.....	Maximum... 58	65	75	80	76	86	83	75	71	70	71	72	72	63	66	69	73	75	67	62	64	68	70	75	74	70	73	80	78	81	72.5	
	Minimum... 47	54	42	41	50	67	48	51	61	60	62	69	63	58	41	41	57	63	51	42	54	41	44	63	64	64	68	70	62	61	54.8	
Belleplain.....	Maximum... 55	53	81	83	85	89	87	74	58	57	69	73	68	65	70	71	71	62	65	52	65	66	68	74	72	70	70	70	77	81	78	70.3
	Minimum... 44	43	37	43	49	48	47	49	46	49	54	60	42	35	38	39	45	51	45	36	41	35	38	39	40	55	59	60	57	55	46.3	
Belvidere.....	Maximum... 54	56	75	80	83	87	86	67	58	66	71	74	62	64	69	67	71	65	63	52	64	67	71	75	71	65	71	74	75	79	78	69.7
	Minimum... 45	43	35	44	44	43	45	48	43	47	46	50	45	35	36	38	42	49	47	33	39	32	33	36	40	31	55	52	55	59	52	43.3
Boonton.....	Maximum... 56	64	71	77	79	82	82	77	62	66	74	73	68	64	67	68	72	72	66	64	65	65	67	71	72	68	75	78	75	80	81	71.0
	Minimum... 44	43	42	47	51	47	51	52	55	57	65	62	42	40	40	50	54	45	40	46	39	37	42	50	61	59	58	59	58	57	49.2	
Bridgeton.....	Maximum... 56	64	76	75	70	86	85	81	70	62	73	75	70	62	69	70	72	70	67	61	62	68	70	76	74	69	80	74	76	81	82	71.8
	Minimum... 45	50	60	55	50	47	48	60	58	50	56	64	44	40	40	63	57	52	49	40	53	36	38	52	52	65	68	59	62	60	51.9	
Burlington.....	Maximum... 56	58	77	80	82	90	88	70	59	66	72	75	63	66	70	71	74	66	55	53	64	69	72	79	75	72	74	75	79	84	82	71.8
	Minimum... 43	38	32	41	48	46	41	42	41	51	53	61	42	30	33	34	43	49	46	32	36	35	30	36	38	51	54	52	55	58	51	43.3
Canoe Brook.....	Maximum... 58	65	71	75	74	77	81	74	64	64	70	71	68	62	65	67	72	74	70	70	70	70	68	70	81	80	71	73	75	69	80	70.9
	Minimum... 56	53	53	49	52	66	63	52	60	60	65	50	45	46	62	63	62	62	58	52	48	44	48	51	50	53	62	62	65	62	54.8	
Cape May.....	Maximum... 52	53	72	80	82	86	84	81	59	66	69	72	66	63	67	68	72	67	67	61	63	67	77	76	75	65	70	72	76	82	78	70.6
	Minimum... 40	39	29	37	39	40	39	44	41	48	54	52	42	29	31	31	38	45	44	29	33	28	33	34	50	58	53	52	52	56	58	41.9
Charlotteburg.....	Maximum... 57	62	72	80	82	90	88	75	61	61	75	72	70	66	70	73	75	72	63	64	66	68	70	80	75	71	79	78	78	85	79	72.8
	Minimum... 42	40	34	40	44	40	44	48	54	58	61	65	44	36	35	34	40	55	51	33	45	44	32	40	42	57	51	50	52	57	50	45.4
Chatsworth.....	Maximum... 61	67	69	82	83	86	84	75	62	61	74	73	68	64	67	68	72	71	78	57	65	67	64	73	75	72	76	77	75	80	81	71.8
	Minimum... 42	41	50	52	59	58	61	49	51	54	54	64	46	43	49	38	54	55	47	45	43	46	49	40	42	52	59	64	59	61	58	51.1
Clayton.....	Maximum... 79	59	75	79	80	89	81	71	63	67	72	75	71	66	71	71	74	68	68	58	64	69	76	79	76	71	74	75	78	83	84	73.1
	Minimum... 55	54	55	47	48	48	48	49	46	49	55	63	42	40	37	38	67	51	47	38	42	35	34	39	44	56	49	53	57	58	55	48.4
Elizabeth.....	Maximum... 58	64	77	83	85	89	90	73	61	66	70	75	69	66	72	70	73	70	67	58	67	70	73	78	73	65	78	70	79	83	81	72.7
	Minimum... 43	43	37	45	46	47	49	54	47	51	54	62	43	38	39	39	44	50	46	36	43	34	35	39	41	53	58	57	57	58	54	46.5
Flemington.....	Maximum... 63	60	73	80	79	85	87	69	59	60	72	72	68	62	67	69	73	70	74	65	69	74	73	78	73	74	72	73	74	81	80	71.8
	Minimum... 41	41	38	47	45	49	50	50	51	52	54	63	42	35	34	43	50	53	45	39	42	37	41	44	46	57	58	54	58	58	59	47.6
Freehold.....	Maximum... 61	68	77	72	86	88	88	75	72	72	75	74	70	68	71	72	76	73	66	67	65	68	76	79	77	78	78	79	85	86	74.8	
	Minimum... 36	33	45	42	39	43	45	45	52	53	58	62	37	34	33	35	45	44	41	33	31	32	33	43	42	43	54	59	33	58	55	43.5
Hammonton.....	Maximum... 55	64	75	82	80	85	86	70	59	63	71	74	69	61	67	69	72	69	65	61	63	68	69	75	73	71	75	74	75	80	81	71.0
	Minimum... 40	41	36	43	44	44	45	47	47	51	55	62	42	34	35	39	49	53	44	36	40	32	35	40	49	60	57	54	59	57	59	46.1
Hightstown.....	Maximum... 55	63	75	82	81	88	88	74	61	60	73	74	67	66	70	69	74	71	67	58	66	69	71	77	72	71	74	75	77	83	83	72.1
	Minimum... 40	39	33	40	42	39	42	45	52	54	56	64	42	32	32	33	50	54	47	32	44	31	31	36	46	60	57	52	58	59	58	45.2
Indian Mills.....	Maximum... 53	54	70	74	70	84	80	67	58	67	68	69	60	62	64	64	65	65	62	52	61	62	67	70	66	66	72	74	78	74	78	66.9
	Minimum... 44	45	40	46	51	54	55	46	51	53	55	46	40	46	49	50	58	46	42	40	41	43	47	53	60	64	62	62	62	62	50.0	
Jersey City*.....	Maximum... 55	62	72	79	77	85	83	69	60	60	70	72	68	62	65	69	74	71	65	57	61	66	69	76	73	76	76	76	82	81	70.5	
	Minimum... 42	40	35	45	44	45	46	48	54	55	56	64	44	36	37	38	51	52	47	36	45	34	36	42	43	59	57	54	56	61	47.1	
Lakewood.....	Maximum... 56	64	77	81	85	90	89	74	61	66	74	74	68	67	71	72	74	67	65	54	65	69	72	76	74	67	72	70	72	80	84	72.5
	Minimum... 41	41	37	43	47	46	47	48	47	51	55	64	43	34	36	38	47	53	47	34	40	35	35	38	44	49	57	59	60	56	55	46.0
Lambertville.....	Maximum... 52	57	76	81	83	89	87	71	58	65	68	73	60	65	69	71	64	64	49	65	66	70	74	69	69	72	71	77	83	78	71	69.9
	Minimum... 41	42	32	42	46	45	42	43	39	48	46	56	36	29	34	43	50	40	30	35	29	32	36	38	50	47	45	60	56	49	52	42.4
Layton.....	Maximum... 55	57	77	82	84	89	87	68	60	66	72	75	64	66	70	74	67	65	57	65	68	73	79	72	70	72	74	79	79	83	81	71.6
	Minimum... 43	40	35	43	45	45	47	49	45	51	53	62	44	35	38	39	52	51	46	36	38	33	34	37	42	42	58	56	54	62	59	46.1
Little Falls.....	Maximum... 55	60	70	77	75	86	80	66	60	62	69	74	63	62	65	71	73	72	66	56	61	65	70	72	70	72	70	72	77	77	83	69.6
	Minimum... 43	45	39	49	48	45	47	49	45	51	53	62	44	35	38	39	52	51	46	36	38	33	34	37	42	42	58	56	54	62	59	49.7
Long Branch*.....	Maximum... 54	58	75	80	83	87	86	70	57	72	70	71	60	67	75	67	72	61	65	51	69	73	70	76	68	64	73	72	76	80	82	70.5
	Minimum... 41	39	31	38	46	40	41	45	44	41	54	56	41	33	32	32	40	46	44	31	39	30	33	36	51	50	53	56	55	53	42.0	
Long Valley.....	Maximum... 55	63	75	81	80	86	85	73	60	60	74	73	62	63	68	69	73	70	66	54	65	67	69	75	74	68	72	75	75	81	82	70.7
	Minimum... 45	40	37	44	46	44	46	50	50	52	51	53	45	37	35	41	47	53	39	37	40	35	36	42	44	60	59	56	57	60	60	46.5

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.

TRENTON, N. J.

VOL. LI.

NOVEMBER 1946

GENERAL SUMMARY

This was the mildest November since 1931 and one of the three warmest of record in New Jersey since 1885. Temperature was above normal most of the time. There was no generally killing frost until the third week resulting in a growing season this year, longer than usual. While crops were mostly matured some fresh vegetables were available in early November and garden flowers were abundant until the middle of the month. It was comparatively cool from about the 13th to 20th and on the 23d and 24th.

It was the driest November since 1936. Rainfall was only 44 percent of normal. Moreover, it was the fourth consecutive month with less than normal precipitation. During this four month period, there has been only 57 percent of the normal amount. There were six distinct rain periods in the month but the heaviest falls occurred on or about the 22d. Only three stations recorded as much as an inch in 24 hours, however. The only snow reported was a trace at two northern stations. There was an unusually large number of clear sunshiny days and the beautiful fall weather was a subject of comment by many people. There was no destructive wind. Heavy fog was recorded on portions of about 10 days.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 42 stations, was 48.3°, which was 4.4° above normal. The highest temperature was 78° at Hammon-ton on the 2d, and the lowest, 10°, at Charlotteburg on the 20th. The highest monthly mean temperature was 53.0° at Cape May, and the lowest, 43.7° at Phillipsburg. The temperature departure from the normal for the year 1946, to date, for the State is +1.8°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 60 stations, was 1.45 inches, which was 1.81 inches below normal. The average total snowfall was a trace, which was 1.3 inches below normal. The greatest monthly precipitation was 2.22 inches at Clayton, and the least, 0.62 inch at Runyon. The greatest amount of precipitation in any 24 consecutive hours was 1.11 inches at Brooklawn on the 21-22d. The average for the Highlands was 1.02 inches; for the Red Sandstone Plain, 1.44 inches; for the Southern Interior, 1.62 inches; and for the Sea Coast, 1.24 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -7.39 inches; Red Sandstone Plain, -2.90 inches; Southern Interior, -5.93 inches; Sea Coast, -5.43 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 2, 3, 4, 8, 16, 20, 21, 22, 25, 26.

KILLING FROST: 6, 13, 14, 15, 16, 19, 20, 21, 23, 24.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

1946 Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.57	18	29.60	8	15.0	42	n.	18	84	64	74	69	400
Long Branch.....	30.64	18	29.59	8	14.1	38	w.	9	78	62	68	50	467
Newark.....	30.65	18	29.57	8	.....	39	w.	26	75	53	67	.....	474
Trenton.....	30.63	18	29.60	8	8.5	23	nw.	8	75	56	.....	52	459

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	44.8	76	18	4.53	.....	.....	.....	.....
1886.....	44.5	73	17	4.49	.....	.....	.....	.....
1887.....	41.5	72	13	1.94	.....	6	.....	.....
1888.....	45.8	77	8	3.97	.....	10	.....	.....
1889.....	45.7	69	13	8.48	.....	13	.....	.....
1890.....	43.8	74	11	0.82	.....	8	13	12
1891.....	42.2	70	6	2.39	.....	4	12	10
1892.....	41.9	71	12	7.29	.....	11	8	9
1893.....	41.8	70	11	3.48	.....	7	10	11
1894.....	40.3	76	11	3.34	.....	10	13	10
1895.....	45.7	80	12	3.17	0	10	12	7
1896.....	48.2	78	12	3.05	3.2	8	9	9
1897.....	43.8	74	10	4.59	1.3	12	8	11
1898.....	42.4	70	11	6.76	14.7	14	10	9
1899.....	44.0	71	17	2.29	1.1	7	15	8
1900.....	47.5	79	15	3.43	T.	9	9	10
1901.....	38.5	69	10	2.38	0.8	6	12	9
1902.....	49.3	80	20	2.20	0.2	8	10	11
1903.....	39.9	79	3	1.26	T.	6	16	8
1904.....	40.2	69	6	2.18	1.6	6	12	10
1905.....	42.1	70	6	1.84	0.1	6	12	10
1906.....	43.6	70	8	1.61	2.3	6	16	7
1907.....	43.5	68	13	5.65	0.8	13	10	8
1908.....	43.1	72	2	0.96	2.2	4	14	8
1909.....	46.4	80	12	2.36	2.1	8	13	8
1910.....	40.4	71	13	3.79	1.4	9	5	13
1911.....	41.3	73	13	5.17	1.7	10	8	11
1912.....	45.3	76	11	3.43	1.3	6	15	8
1913.....	46.2	77	21	2.71	T.	7	14	7
1914.....	43.3	80	6	2.60	0.7	6	16	8
1915.....	44.0	75	17	1.69	0	8	14	8
1916.....	43.3	75	12	2.11	T.	8	16	5
1917.....	39.8	68	9	0.66	0.7	3	19	5
1918.....	43.9	71	12	1.87	0	7	14	6
1919.....	43.7	76	13	3.74	T.	11	13	7
1920.....	43.0	74	12	4.41	0.2	10	9	6
1921.....	44.3	79	18	4.26	0.1	14	9	6
1922.....	44.3	73	13	0.91	0.2	6	13	8
1923.....	43.1	72	11	2.51	0	7	11	8
1924.....	42.9	77	1	2.03	1.3	5	14	8
1925.....	42.0	76	10	3.40	0.7	9	14	8
1926.....	42.5	76	8	4.04	T.	9	13	8
1927.....	47.9	78	15	4.02	0.1	11	10	8
1928.....	45.1	78	13	1.90	0.3	9	10	9
1929.....	44.5	83	4	2.73	0.4	10	10	7
1930.....	44.1	73	2	3.70	0.2	9	12	6
1931.....	50.3	80	14	0.82	1.6	6	12	7
1932.....	42.0	71	3	7.81	T.	9	14	7
1933.....	40.6	78	7	1.01	0.6	7	13	7
1934.....	47.3	80	10	2.91	0.1	11	12	6
1935.....	47.8	78	8	4.95	2.1	13	7	7
1936.....	41.1	80	3	1.18	1.3	6	14	7
1937.....	43.7	72	10	4.56	0.2	9	16	5
1938.....	45.6	80	-7	3.42	12.6	12	11	6
1939.....	41.5	78	12	1.86	0.2	4	17	6
1940.....	43.5	76	10	4.66	1.0	10	8	7
1941.....	46.8	78	13	2.90	0	5	17	7
1942.....	44.9	78	12	4.14	T.	10	14	7
1943.....	42.4	73	9	2.89	T.	6	15	8
1944.....	43.9	76	13	6.44	0.9	9	10	8
1945.....	46.1	80	11	5.54	2.1	12	12	6
1946.....	48.3	78	10	1.45	T.	7	15	6
Period.....	43.9	83	-7	3.26	1.3	8	12	8

Climatological Data for November 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches					No. of days					Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	73	51.8	+6.2	70	8	30	24	1.37	-1.45	0.48	3-4	0	11	8	7	15	w.	U. S. Weather Bureau.
Belleplain.....	Cape May.....	49	52			73	26			1.62	-1.13	0.38	8	0	6	18	4	8	nw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	5							1.16		0.31	17	0	10				w.	City Water Dept.
Belvidere.....	Warren.....	289	54	47.0	+5.5	72	4	23	16	1.03	-2.35	0.30	12	0	7	17	2	11		Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	5							2.05		0.58	21	0	6	16	8	6	nw.	Samuel H. McCulley.
Boonton.....	Morris.....	280	56	46.2	+4.5	71	4	21	16†	0.81	-2.79	0.32	12	0	6	20	1	9	nw.	John Kline.
Bridgeport.....	Cumberland.....	30	63	50.0	+4.2	74	2	24	24	1.82	-1.00	0.55	22	0	5	21	2	7	nw.	Bennett K. Matlack.
Brooklawu.....	Camden.....	30	5							1.79		1.11	21-22	0	4					C. D. Scott.
Burlington.....	Burlington.....	12	60	51.0	+5.2	72	1†	25	24	2.01	-1.16	1.02	22	0	4	18	6	6	w.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	16	46.4	+4.6	71	4	18	16	1.67	-2.16	0.69	21-22		6	15	7	8	nw.	N. J. Dept. of Conservation.
Cape May.....	Cape May.....	17	58	53.0	+5.7	71	2	28	24						22	5	3		nw.	Richard F. Umfrid, Jr.
Charlotteburg††.....	Passaic.....	760	54	45.9	+4.9	71	3	10	20	1.01	-2.77	0.26	7-8	0	7	5	3	22	nw.	Newark Water Dept.
Chatham.....	Morris.....	185	42							1.79	-1.69	0.37	22	0	7	20	4	6		Edward P. Molitor.
Chatsworth.....	Burlington.....	90	6	49.2		77	1	18	16	1.75		0.42	17	0	6	15	8	7	s.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	33	50.0	+2.3	72	2†	23	16	2.22	-0.64	0.82	22	0	9	18	5	7	nw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	3							1.29		0.34	26	0	8	16	3	11	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	45							0.70	-2.49	0.24	12	0	5					L. S. Depue.
Elizabeth.....	Union.....	34	67	48.0	+4.0	72	4	24	16†	1.73	-1.51	0.84	22	0	8	11	5	11	nw.	Union County Park Comm.
Flemington, 2 mi. NE.....	Hunterdon.....	140	60	48.4	+4.6	74	4	22	16	1.23	-1.98	0.38	11-12	0	8	20	2	8	w.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	42	49.0	+4.1	71	26	24	24	1.49	-2.44	0.85	22	0	6	20	5	5	sw.	Moreau Plant Co.
Hammoutou.....	Atlantic.....	95	40	50.0	+6.8	78	2	20	16	1.19	-1.98	0.32	22	0	7	15	9	6	n.	J. G. Wilson.
Hightstown.....	Mercer.....	110	53	48.2	+4.3	70	11†	19	16	1.48	-1.78	0.76	22	0	7	15	7	8	nw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	57	48.6	+4.6	74	26	17	16	1.81	-1.31	0.55	22	0	8	14	10	6	w.	Edward Entwistle.
Jersey City.....	Hudson.....	81	48	47.4	+2.4	68	4	28	24	1.80	-1.36	0.78	22	0	7	22	0	8	se.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	42	48.6	+4.6	73	26	21	16	1.42	-1.68	0.39	17-18	0	8	10	13	7	nw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	59	48.5	+5.2	73	4	20	16	1.04	-2.18	0.41	17	0	8	18	4	18	s.	George Bailey.
Layton††, 3 miles NW.....	Sussex.....	480	45	44.2	+4.7	71	4	13	19	0.67	-2.48	0.27	8	0	7	9	4	17	ne.	A. M. Depue.
Little Falls.....	Passaic.....	157	43	48.3	+5.1	72	4	23	16	1.41	-2.06	0.60	22	0	7	12	10	8	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	38	49.3	+4.7	70	4	25	24	1.05	-2.34	0.35	22	0	7	10	7	13	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	16	44.4	+3.3	70	4	18	15	1.26	-3.22	0.32	10	0	5	11	13	6	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	5							1.76		0.84	22	0	5	18	2	10	s.	David Griscorn.
Mays Landing.....	Atlantic.....	50	2							1.61		0.54	7-8	0	10	16	6	8	nw.	Elmer Earle.
Millville.....	Cumberland.....	69	6							1.35		0.54	17	0	6	14	8	8		Paul Ritchie.
Moorestown.....	Burlington.....	62	83	48.0	+4.8	73	4	22	16	1.82	-1.42	1.09	22	0	7					Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	5	46.3		71	3†	19	16†	1.22		0.46	22	T.	6	20	1	9		James C. Long.
Newark.....	Essex.....	10	92	49.2	+5.2	72	4	26	24	1.57	-1.86	0.81	22	0	7	8	8	14	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	86	92	48.9	+5.1	71	4	23	16†	1.49	-1.85	0.80	22	0	7	11	7	12	nw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	28							1.32	-1.95	0.61	22	0	7					Hackensack Water Co.
Newton.....	Sussex.....	769	63	44.8	+3.8	70	4	20	19	1.02	-2.21	0.28	11	0	8	6	11	13	nw.	Irving J. Kern.
Orange††.....	Essex.....	140	6							1.26		0.57	22	0	9					County Engineer.
Pateron.....	Passaic.....	95	75	48.1	+4.3	71	4	24	16†	1.45	-1.85	0.58	22	0	7	13	7	10	w.	J. W. Cook.
Pemberton.....	Burlington.....	55	17	49.5	+3.1	75	26	19	16	1.78	-1.45	0.83	22	0	6	15	6	9	nw.	Charles A. Doehlert.
Phillipsburg.....	Warren.....	182	63	43.7	+1.7	69	4	20	16	1.74	-1.43	0.39	11-12	0	7	12	12	6		Town Engineer.
Plainfield.....	Union.....	120	58	48.2	+5.1	72	4	24	16†	1.79	-1.55	0.93	22	0	7	10	9	11	nw.	S. K. Pearson.
Plain-boro.....	Middlesex.....	110	5							1.74		0.90	21	0	3					Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	48	49.8	+4.7	74	9	18	24	1.78	-1.25	0.56	3-4		11	12	8	10	s.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	7							1.50		0.77	22	0	6	14	6	10	nw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	29	47.6	+4.4	71	4	24	16†	1.51	-1.67	0.66	22	0	7	13	6	11	nw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	23	47.4	+4.6	75	5	14	16	0.62	-2.75	0.39	17		3	22	3	5	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	2	49.2		72	4	26	16†	1.71		0.78	22	T.	8	6	5	19	nw.	Harold Scott.
Sandy Hook.....	Monmouth.....	15	48	51.6	+5.8	68	4	31	24	1.03	-2.22	0.51	22	0	5	9	17	4	w.	U. S. Coast Guard.
Somerville.....	Somerset.....	65	63	47.5	+4.6	72	4	19	16	1.27	-1.82	0.44	22	0	8	14	4	12	w.	William E. Haver.
Sussex.....	Sussex.....	450	51	45.6	+4.1	72	4	16	24	0.76	-2.59	0.26	11	0	8	9	3	18	w.	Marshall Hunt.
Toms River.....	Ocean.....	33	25							1.64	-2.03	0.66	22	0	5					Robt. F. Snyder.
Trenton.....	Mercer.....	56	74	49.8	+5.4	72	4	29	24	1.61	-1.12	0.99	22	0	7	10	7	13	s.	U. S. Weather Bureau.
Trenton No. 2.....	do.....	105	16	49.3	+4.5	71	4	25	16	1.70	-1.94	0.99	22	0	8					Edward H. Ristow.
Tuckerton.....	Ocean.....	23	53	50.7	+5.0	71	2	42	24	1.25	-1.87	0.38	18	0	6	19	4	7	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	66							1.52	-1.61	0.60	17	0	5	19	6	5	nw.	Robert Jones.
Westfield.....	Union.....	145	7							1.66		0.82	22	0	6	15	6	9	sw.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	28							1.29	-2.03	0.61	22	0	9					Hackensack Water Co.
New York, N. Y.....		10	76	50.0	+5.8	70	4	30	24	1.37	-1.59	0.74	22	0	6	10	7	13	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....		10	76	51.6	+5.9	74	4	32	23	1.87	-0.83	1.11	22	0	7	10	7	13	nw.	U. S. Weather Bureau.
For the State.....				48.3	+4.4	78	2	10	20	1.45	-1.81	1.11	21-22	T.	7	15	6	9	nw.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for November 1946

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast	T.		.32	.16			.08	.22			.10	.02					.25	.05				.15				T.	.01					1.37
Bass River	do.			.13				.02	.26			T.	.14						.38				.42				T.		.01				1.36
Belleplain	Tuckahoe			.30	.23				.38			.16						.20				.35											1.62
Belmar ²	Coast		.01	.04	.01			.02	.28	T.		.11	T.					.31	T.			1	.30			T.	.02	.06					1.16
Belvidere	Delaware	T.		T.					.22			.05	.30					.12					.22					.06	.06				1.03
Berlin	Mullica			T.				.30				.12						.55				.58	.25					.25					2.05
Boonton ³	Passaic			T.	T.				.20	T.		.32						.50		.05			.12	.07			T.	.05					0.81
Bridgeton	Delaware			.09					.49		T.	.19											.55										1.82
Brooklawn	do.								.10									.43					1.11					.15					1.79
Burlington	do.								.27				.32					.40					1.02										2.01
Canoe Brook ³	Passaic								.29				.23						.27				.58	.11									1.67
Canton	Delaware			T.	.06				.44				.29					.30	.41				.85	.03			.08						2.46
Cape May ¹	Coast								.26			.09	.23					.08	.02				.24						.09				1.01
Charlotteburg	Passaic								.28			.36							.23				.37	.30					.24				1.79
Chatham ³	do.				T.				.31			.25	T.					.42	T.				.33				.01	.24					1.75
Chatsworth	Coast			.06					.37			.11	.04						.56	.04			.82			T.	.02	.17					2.22
Clayton	Delaware			.09					.20			.09	.24					.20	.01				.21				.03	.31					1.29
Clinton	Raritan			T.								T.	.24					.05					.15					T.	.06				0.70
Culvers Lake	do.								.20			.01	.12			.20		.28	.06				.84				.03	.19					1.73
Elizabeth	Coast			T.					.19			.26											.55					.12					1.12
Essex Fells	Passaic								.17			.13	.25					.22	.05				.21				.04	.16					1.23
Flemington	Raritan			T.									.08					.28	T.				.85				.02	.06					1.49
Freehold	do.							T.	.20																								
Hammonton	Mullica							.09	.13				.26					.13	.13				.32			.13							1.19
Hightstown	Raritan			T.					.17			T.	.06					.37	.07				.76				.02	.03					1.48
Indian Mills	Mullica			.08	.02			T.	.26			T.	.12					.32	.12				.55						.34				1.81
Jersey City ²	Coast								.18			.07	.12					.35					.78				.28	.02					1.80
Lakewood	Metedeconk			.05	.02				.30			T.	.16					.28	.11				.35					.15					1.42
Lambertville	Delaware	T.						T.	.12			.05	.06					.35	.06				.33				.02	.05					1.04
Layton	do.								.27			.02	.15					.03					.12				.04	.04					0.67
Little Falls ³	Passaic			T.	T.				.22				.33						.15				.59	.01			.01	.10					1.41
Long Branch [†]	Coast		T.	T.				.01	.24			.12						.27					.35				.01	.05					1.05
Long Valley ³	Raritan							.24				.32						.18						.27				.25					1.26
Manville	do.							T.	.05			T.						.30					.60				.17						1.12
Marlton	Delaware								.18				.10					.44					.84					.20					1.76
Mays Landing	Gt. Egg Harbor			.10	.07			.05	.49			.02	.04					.10	.21				.52					.01					1.61
Midland Park	Passaic			.04					.20				.21					.29					.50				.07						1.31
Millville [†]	Maurice							.09	.25			.06						.54					.34										1.35
Moorestown ³	Delaware								.13				.08					.01	.33				.99	.10				.18					1.82
Morris Plains	Passaic			T.	T.				.14			T.	.46					.14	.02				.34	T.				.12					1.22
Newark ¹	Coast	T.						T.	.19			.10	.01					.25					.81				.19	.02					1.57
New Brunswick	Raritan							.15				T.	.02					.38	.08				.80				.02	.04					1.49
New Milford [†]	Hackensack							.20				.15	.07					.18					.61				.09	.02					1.32
Newton	Delaware			.02					.22	T.		.05	.23					.07					.20				.07	.16					1.02
Orange [†]	Passaic							.26				.12	.01					*	.13				.57				.15	.02					1.26
Paterson ²	do.		.01					T.	.22			.28	.02					.17					.58				.17	T.					1.45
Pemberton	Delaware			T.					.22				.13					.31	.12				.83					.17					1.78
Phillipsburg	do.			T.	T.			T.	.29			.15	.24					.19					.33				.25	.29					1.74
Plainfield	Raritan								.16				.02	.13				.36	T.				.93				.04	.15					1.79
Plainsboro	do.												.34					.50					.90										1.74
Pleasantville ³	Coast			.13	.43				.36	.02			.12						.32				.04	.24		.05	.04	.03					1.78
Rahway [†]	Rahway							T.	.20			.10						.33					.77				*	.10					1.50
Ridgefield	Hackensack								.25			.03	.09					.28	T.				.66				.03	.17					1.51
Ringwood	Passaic				.02				.26				.25					.03	.07				.23			.01		.04					0.91
Runyon	Coast								.08				.15					.39															0.62
Rutherford	Passaic			T.	T.			T.	.32			.03	.10					.20	.01				.78	T.			.02	.25					1.71
Sandy Hook ^{2†}	Coast			T.				.01	.21			.04	T.					.25					.51					.01					1.03
Somerville	Raritan							T.	.21			.05	.11					.27	.07				.44				.01	.11					1.27
Sussex	Hudson								.23			.03	.23					.03					.14				.01	.04	.04				0.75
Swedesboro	Delaware			.02				.15					.07					.50	.04				.78			.01		<					

Daily Temperatures for November 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*	64	67	63	69	57	59	60	70	60	58	64	62	53	58	49	56	60	50	50	63	59	60	41	56	61	60	65	52	58	56	58.7	
Belleplaiu	59	61	61	57	43	40	49	54	45	42	58	42	36	39	33	37	50	40	40	44	41	31	30	56	55	44	39	40	36	44.8		
Belvidere	72	70	65	70	67	59	70	71	61	62	70	72	71	65	62	60	58	55	54	61	65	60	52	62	73	66	53	62	57	63.2		
Boonton /	66	65	63	72	58	60	55	62	55	58	60	60	52	54	45	52	49	52	49	53	60	55	42	44	58	63	65	47	50	48	55.7	
Bridgetou	49	55	57	58	44	37	40	47	52	41	51	45	33	34	32	23	37	33	25	25	27	40	31	25	35	41	37	33	34	29	38.3	
Burlington	68	63	66	71	52	60	60	65	55	58	63	57	51	53	48	54	53	46	54	59	63	57	39	51	61	66	55	49	50	50	56.6	
Canoe Brook /	52	49	55	56	45	31	39	49	48	39	33	47	33	30	33	21	29	31	28	22	23	29	32	21	47	41	36	31	25	35.9		
Cape May	72	74	65	70	65	58	60	68	60	60	72	62	51	56	48	55	56	54	52	57	61	60	47	50	64	72	68	48	54	55	59.8	
Charlotteburg	56	57	58	62	42	34	39	53	44	37	45	50	33	30	28	25	44	35	32	36	32	44	29	24	43	52	44	34	33	31	40.2	
Chatsworth	72	70	68	71	69	60	56	68	63	62	69	67	54	55	49	58	53	54	51	58	64	60	54	49	65	72	67	52	55	55	60.7	
Clayton	55	55	60	59	49	36	38	51	54	37	47	48	35	34	30	29	43	35	33	30	35	43	36	25	36	47	44	42	44	30	41.3	
Elizabeth	70	66	64	71	54	61	60	68	56	58	67	60	54	56	50	57	54	48	56	59	62	56	44	51	66	67	60	52	52	50	58.3	
Flemington	50	54	58	58	44	32	34	45	37	33	46	42	29	26	28	18	33	29	19	22	23	30	28	19	31	45	41	33	29	23	34.6	
Freehold	60	71	65	67	67	60	63	66	62	60	68	64	54	56	54	56	60	57	51	57	62	60	55	53	63	66	65	52	54	56	60.1	
Hammonton	51	57	61	50	43	36	53	56	53	43	55	52	43	36	39	31	52	44	45	43	38	50	36	28	49	54	52	42	45	52	46.0	
Indiau Mills	66	61	71	70	62	54	58	65	60	54	62	68	49	52	47	54	50	45	54	58	62	55	50	44	64	61	64	50	48	50	56.9	
Jersey City*	47	52	55	54	41	38	37	46	44	37	48	42	34	28	29	15	37	29	16	10	23	31	28	18	31	45	39	32	38	24	34.9	
Lakewood	77	72	70	71	70	59	60	67	62	63	72	60	55	55	60	59	56	56	56	62	70	60	57	55	65	73	60	55	55	60	62.1	
Lambertville	55	49	50	58	40	27	36	50	34	30	50	45	25	26	28	18	34	35	28	29	25	37	28	19	50	45	45	34	30	30	36.3	
Layton	69	72	63	71	64	58	57	68	58	60	71	62	51	55	48	56	55	54	51	57	62	59	48	50	64	72	68	52	53	55	59.4	
Little Falls /	56	57	58	59	41	33	35	51	50	35	46	47	33	34	23	40	36	35	31	37	45	29	26	42	53	42	39	35	33	30	40.5	
Morris Plains	70	66	66	72	67	63	62	68	62	60	69	64	57	59	51	57	55	55	58	62	59	51	45	49	66	67	52	53	51	52	59.7	
Newark*	51	55	58	58	44	33	35	46	42	35	46	45	29	28	24	35	34	29	24	35	34	29	28	36	28	30	40	33	30	28	36.4	
Philipsburg	69	66	65	74	63	63	58	68	63	60	65	62	55	56	50	55	54	53	55	59	63	57	50	46	65	66	67	51	52	51	59.4	
Rutherford	54	55	57	59	45	33	38	48	46	37	46	47	33	33	31	22	33	33	24	23	29	37	31	24	28	43	39	33	34	27	37.5	
Sandy Hook	69	67	61	70	63	59	57	68	60	69	64	52	55	47	57	55	53	51	60	62	59	49	48	65	71	68	49	52	52	59	59.1	
Somerville	54	56	58	57	38	33	42	50	43	38	46	45	31	31	20	25	41	34	28	30	42	29	24	40	49	42	34	36	29	29	38.8	
Trenton*	75	78	68	71	68	61	54	64	60	72	74	68	53	62	52	60	57	49	56	63	65	62	61	53	65	70	65	55	61	59	62.7	
Trenton No. 2*	59	51	47	57	35	27	48	46	40	30	48	42	25	31	27	20	32	39	30	34	31	44	34	23	28	42	39	33	37	36	37.2	
Union	69	69	65	69	64	59	58	67	61	61	70	65	54	55	50	57	54	55	56	60	59	51	48	65	70	67	49	52	53	53	59.5	
Westfield	53	54	53	58	40	33	40	49	42	34	48	46	28	28	19	37	32	27	24	21	26	25	23	36	49	40	32	36	26	26	36.9	
Yonkers	70	71	64	72	65	59	59	68	61	62	71	64	53	56	50	58	55	55	54	61	65	59	51	61	65	74	68	50	55	54	60.7	
.....	55	56	59	58	35	27	32	51	42	32	41	47	26	28	30	17	38	34	28	27	25	38	29	19	38	53	45	35	30	24	36.6	
.....	64	62	62	68	51	57	59	67	54	54	62	56	50	45	51	52	44	47	54	55	56	38	45	60	61	49	48	48	48	48	54.3	
.....	52	57	56	50	41	40	45	51	48	44	52	40	36	32	31	30	44	32	31	33	38	35	30	28	44	54	41	37	32	32	40.5	
.....	70	66	65	69	63	57	59	67	60	58	70	63	50	56	47	57	55	55	51	59	59	48	49	67	73	67	48	54	50	50	59.0	
.....	55	56	59	58	40	32	41	50	46	35	43	48	30	31	30	21	35	32	30	31	28	36	30	23	33	50	44	34	30	30	38.1	
.....	69	68	64	73	61	61	58	68	60	62	67	62	51	54	52	57	54	56	59	64	60	46	48	66	68	64	48	53	52	50	59.3	
.....	54	57	58	59	45	32	36	49	42	36	50	48	28	31	28	20	35	33	25	24	27	38	31	23	34	45	44	36	35	27	37.7	
.....	65	63	62	71	54	60	58	66	55	56	60	60	50	50	48	52	49	53	57	61	55	50	44	60	50	63	49	45	45	45	55.3	
.....	41	51	55	50	40	26	33	46	44	39	51	41	24	30	24	14	37	29	13	17	22	30	30	19	30	38	34	29	29	29	33.2	
.....	69	66	66	72	54	61	62	68	57	61	66	59	57	55	50	56	53	47	55	60	62	58	46	55	65	49	59	50	55	56	58.3	
.....	50	56	54	58	45	38	41	48	45	38	49	49	33	32	32	23	39	31	24	24	28	36	31	24	34	48	41	36	35	27	38.3	
.....	68	66	62	70	54	58	60	68	59	59	67	60	53	56	48	57	57	55	53	60	58	62	40	48	68	69	67	50	50	51	58.1	
.....	57	58	57	53	38	36	44	50	45	39	51	38	32	35	32	27	44	38	35	35	34	32	29	25	44	52	44	35	34	34	40.5	
.....	69	63	64	70	52	58	65	52	57	60	61	53	55	48	52	50	51	45	53	57	63	55	40	44	62	65	48	47	48	48	55.4	
.....	45	50	51	57	42	32	38	40	36	45	42	27	29	27	18	30	29	30	20	19	23	31	29	20	31	41	35	32	30	26	33.5	
.....	62	70	62	73	56	58	56	61	56	62	69	58	52	55	49	57	53	46	53	57	64	59	38	49	65	72	57	48	53	54	57.5	
.....	55	56	60	56	34	34	39	51	45	35	48	38	34	33	26	22	39	31	31	29	30	38	30	26	50	45	39	33	29	28	38.4	
.....	70	63	71	71	63	59	66	63	56	57	62	58	52	54	48	54	53	52	55	57	60	57	53	45	63	66	55	53	50	47	57.8	
.....	49	53	55	56	42	30	40	47	34	37	37	44	27	28	31	19	34	31	27	22	26	36	19	20	29	47	43	34	25	25	34.8	
.....	70	65	65	72	54	60	63	68	57	57	67	62	53	54	48	57																

51.05
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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.
TRENTON, N. J.

VOL. LI.

DECEMBER 1946

No. 12

GENERAL SUMMARY

December was warmer than normal for the first time since 1941. There was a mild period from the 5th to 13th and several days thereafter were warmer than normal. The warmest day was the 10th, when three stations registered high readings of 74°. The coldest weather at most stations was on the 2d and 3d, though a few stations had their lowest temperatures during the last week of the month. At no place did it reach zero. It is notable that all months this year were warmer than normal except July and August.

Precipitation this month was below normal as was the case with all months of 1946 except May, June, and July. No precipitation of consequence occurred during the first ten days but it came with about the usual frequency thereafter. The heaviest amounts were on the 20th to 21st with some snow accompanying the rain at that time, or as a general thing, snow was followed by rain. Snowfall for the month was unusually light with an average of only 2.0 inches for the State compared with a normal amount of 5.3 inches.

Winds of gale force were registered in coastal areas on the 2d, 12th, 13th, 20th, 21st, and 22d, the strongest being 53 miles per hour at Atlantic City on the 21st.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 43 stations, was 36.5°, which was 2.9° above normal. The highest temperature was 74° at 3 stations on the 10th, and the lowest, 2°, at Layton on the 27th. The highest monthly mean temperature was 42.6° at Cape May, and the lowest, 31.8° at Newton. The temperature departure from the normal for the year 1946, to date, for the State is +1.9°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 60 stations, was 2.38 inches, which was 1.15 inches below normal. The average total snowfall at 30 selected stations was 2.0 inches, which was 3.3 inches below normal. The greatest monthly precipitation was 3.68 inches at Hammononton, and the least, 1.10 inches at Moorestown. The greatest amount of precipitation in any 24 consecutive hours was 2.68 inches at Freehold on the 20th-21st. The average for the Highlands was 1.96 inches; for the Red Sandstone Plain, 2.19 inches; for the Southern Interior, 2.57 inches; and for the Sea Coast, 2.46 inches. The precipitation accumulated departure from the normal for the year 1946, to date, by sections, is: the Highlands, -8.93 inches; Red Sandstone Plain, -4.23 inches; Southern Interior, -6.91 inches; Sea Coast, -6.78 inches.

DATES OF MISCELLANEOUS PHENOMENA.

THUNDERSTORMS: 13. HEAVY FOG: 7, 8, 9, 12, 17, 21, 23, 29.
SLEET: 16, 17, 18, 20, 27, 28, 29.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sun-shine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.68	31	29.41	13	16.3	53	se.	21	76	65	74	57	719
Long Branch.....	30.69	31	29.32	13	15.4	49	w.	22	70	60*	68	57	835
Newark.....	30.68	31	29.31	13	.....	36	nw.	2	69	53	59	.....	870
Trenton.....	30.67	31	29.34	13	9.4	36	nw.	2	69	56*	.....	41	842

* Noon

COMPARATIVE DATA FOR DECEMBER

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	35.3	60	6	3.15	.....	.....	.....	.....	.....
1886.....	29.1	60	-2	3.51	.....	.....	.....	.....	.....
1887.....	33.7	62	6	5.29	.....	10	.....	.....	.....
1888.....	34.9	65	5	3.69	.....	8	.....	.....	.....
1889.....	41.5	71	8	1.62	.....	9	.....	.....	.....
1890.....	30.9	56	3	3.89	.....	11	.....	.....	.....
1891.....	40.9	71	9	4.25	.....	8	.....	.....	.....
1892.....	30.4	68	1	1.87	.....	13	.....	.....	.....
1893.....	34.9	70	5	3.39	.....	11	.....	.....	.....
1894.....	34.3	66	-3	4.36	.....	11	.....	.....	.....
1895.....	37.2	70	3	2.61	.....	6	.....	.....	.....
1896.....	31.3	64	-15	1.48	.....	4	.....	.....	.....
1897.....	35.1	69	-3	4.90	.....	11	.....	.....	.....
1898.....	33.3	66	1	3.53	.....	9	.....	.....	.....
1899.....	35.5	69	1	2.11	.....	5	.....	.....	.....
1900.....	34.4	64	-2	3.59	.....	6	.....	.....	.....
1901.....	32.6	68	-5	7.80	.....	11	.....	.....	.....
1902.....	31.7	62	-11	7.23	.....	13	.....	.....	.....
1903.....	28.6	56	-13	4.08	.....	9	.....	.....	.....
1904.....	27.0	60	-15	3.19	.....	12	.....	.....	.....
1905.....	36.3	61	5	3.65	.....	7	.....	.....	.....
1906.....	33.0	70	-5	3.99	.....	13	.....	.....	.....
1907.....	36.6	70	-3	4.91	.....	9	.....	.....	.....
1908.....	34.0	72	1	3.63	.....	11	.....	.....	.....
1909.....	29.8	60	-15	4.45	.....	5	.....	.....	.....
1910.....	26.5	58	-14	2.79	.....	9	.....	.....	.....
1911.....	38.4	70	2	3.77	.....	11	.....	.....	.....
1912.....	36.9	68	-1	4.73	.....	9	.....	.....	.....
1913.....	37.7	63	-11	3.08	.....	7	.....	.....	.....
1914.....	31.1	66	-9	5.86	.....	12	.....	.....	.....
1915.....	31.9	64	3	4.82	.....	13	.....	.....	.....
1916.....	32.3	70	-8	4.61	.....	11	.....	.....	.....
1917.....	24.8	54	-21	3.18	.....	11	.....	.....	.....
1918.....	37.5	66	9	3.92	.....	10	.....	.....	.....
1919.....	28.8	67	-18	2.98	.....	12	.....	.....	.....
1920.....	36.4	69	7	5.10	.....	8	.....	.....	.....
1921.....	32.3	64	-4	2.37	.....	9	.....	.....	.....
1922.....	32.5	65	-8	3.86	.....	12	.....	.....	.....
1923.....	40.8	69	9	4.14	.....	12	.....	.....	.....
1924.....	32.8	68	-4	2.58	.....	8	.....	.....	.....
1925.....	34.0	61	-5	2.84	.....	10	.....	.....	.....
1926.....	28.4	52	-7	3.44	.....	11	.....	.....	.....
1927.....	35.3	70	2	4.54	.....	12	.....	.....	.....
1928.....	36.3	63	3	1.64	.....	8	.....	.....	.....
1929.....	33.8	68	2	3.01	.....	10	.....	.....	.....
1930.....	33.0	60	-5	2.67	.....	8	.....	.....	.....
1931.....	39.6	72	7	2.27	.....	4	.....	.....	.....
1932.....	36.0	69	-6	3.08	.....	13	.....	.....	.....
1933.....	31.8	72	-18	3.19	.....	12	.....	.....	.....
1934.....	33.2	69	-3	2.90	.....	8	.....	.....	.....
1935.....	28.9	60	-14	1.67	.....	9	.....	.....	.....
1936.....	37.5	67	-3	6.29	.....	12	.....	.....	.....
1937.....	33.2	70	0	1.75	.....	7	.....	.....	.....
1938.....	34.8	67	1	2.80	.....	10	.....	.....	.....
1939.....	35.2	69	-1	1.54	.....	8	.....	.....	.....
1940.....	37.0	67	-4	3.00	.....	10	.....	.....	.....
1941.....	37.2	70	9	3.70	.....	7	.....	.....	.....
1942.....	30.0	67	-17	4.55	.....	11	.....	.....	.....
1943.....	31.1	62	-10	1.41	.....	3	.....	.....	.....
1944.....	30.7	58	-14	3.02	.....	9	.....	.....	.....
1945.....	29.0	64	-11	5.03	.....	11	.....	.....	.....
1946.....	36.5	74	2	2.38	.....	7	.....	.....	.....
Period.....	33.6	74	-21	3.53	.....	9	.....	.....	.....

Climatological Data for December 1946

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy			
Atlantic City.....	Atlantic.....	49	73	41.7	+5.3	63	1	16	3	1.98	-1.96	1.29	20-21	0.3	8	8	7	16	w.	U. S. Weather Bureau.	
Belleplain.....	Cape May.....	52	52	40.4	+5.0	70	10	13	20†	2.20	-1.34	1.40	20-21	.....	8	13	2	16	w.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	5	.....	.....	.....	.....	.....	.....	3.00	.....	1.37	20	.....	8	.....	.....	.....	sw.	City Water Dept.
Belvidere.....	Warren.....	289	54	35.3	+4.3	67	10	14	2†	2.74	-1.00	1.55	20-21	3.0	6	18	6	7	.....	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	5	.....	.....	.....	.....	.....	.....	2.72	.....	1.65	20	.....	6	15	7	9	w.	Samuel H. McCulley.
Boonton.....	Morris.....	280	56§	33.6	+3.3	69	10	11	27†	1.49	-1.79	0.85	21	.....	6	.....	.....	.....	nw.	John Kline.
Bridgeton.....	Cumberland.....	30	63	39.8	+3.8	68	28	14	3	2.55	-0.91	1.60	20-21	0	7	.....	.....	.....	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	5	.....	.....	.....	.....	.....	.....	2.43	.....	1.69	20-21	.....	5	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	60§	38.8	+3.8	70	10	17	2†	1.97	-1.82	0.95	20-21	1.0	5	.....	.....	.....	w.	Public Service E. & G. Co.
Canoe Brook††	Essex.....	140	16	33.6	+3.0	74	10	9	31	2.08	-0.93	.....	.....	.....	6	18	5	8	e.	N. J. Dept. of Conservation.
Cape May.....	Cape May.....	17	58	42.6	+2.4	61	1†	19	27	1.33	-2.24	0.67	20-21	.....	5	17	9	5	nw.	Richard F. Umfrid, Jr.
Charlotteburg††	Passaic.....	760	54	33.2	+2.8	70	10	6	27	2.26	-1.65	1.46	20-21	3.0	8	1	3	27	w.	Newark Water Dept.	
Chatham.....	Morris.....	185	42	.....	.....	.....	.....	.....	.....	2.46	-1.40	1.05	20-21	.....	7	16	8	7	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	6	38.8	.....	74	10	11	27	2.68	.....	1.78	20-21	.....	5	10	13	8	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	33	39.2	+4.5	67	10	14	3	2.31	-1.22	1.47	20-21	T.	6	16	8	7	sw.	Harry P. Campbell.	
Clinton.....	Hunterdon.....	300	3	2.17	1.45	20-21	2.5	8	15	4	12	nw.	L. W. Klockner.
Culvers Lake††	Sussex.....	760	45	.....	.....	.....	.....	.....	.....	2.21	-0.95	1.45	20-21	2.8	6	.....	.....	.....	.....	L. S. Depue.
Elizabeth.....	Union.....	34	67	36.2	+2.5	72	10	10	3	1.19	-2.49	0.39	28-29	2.5	8	.....	.....	.....	nw.	Union County Park Comm.
Flemington, 2 mi. N.E.....	Hunterdon.....	140	60§	36.0	+3.2	72	10	14	2†	2.22	-1.26	1.09	20-21	2.0	7	16	8	7	nw.	Hiram E. Deats.	
Freehold.....	Monmouth.....	194	42§	37.2	+3.1	70	10	12	2	3.66	+0.14	2.68	20-21	1.0	7	.....	.....	.....	sw.	Moreau Plant Co.
Hammononton.....	Atlantic.....	95	40§	39.6	+6.9	71	10	16	2†	3.68	+0.32	2.00	20-21	T.	7	9	13	9	sw.	J. G. Wilson.	
Hightstown.....	Mercer.....	110	53	35.9	+2.7	71	10	11	3	3.09	-0.20	2.19	20-21	1.8	8	8	16	7	w.	James R. Pickering	
Indian Mills††, 2 mi. W	Burlington.....	100	57	37.2	+2.9	71	10	9	3	2.82	-0.96	1.90	20-21	1.5	8	10	13	8	w.	Edward Entwistle.	
Jersey City.....	Hudson.....	81	48	35.4	+0.7	68	10	14	2†	2.53	-0.91	1.80	20-21	.....	6	.....	.....	.....	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	42	37.4	+3.1	71	10	11	31	3.22	-0.46	1.90	20-21	1.6	8	3	19	9	nw.	R. W. Holman.	
Lambertville.....	Hunterdon.....	75	59	36.1	+2.9	74	10	14	27	2.33	-1.21	1.46	20-21	2.5	8	16	8	7	nw.	George Bailey.	
Layton††, 3 miles NW.....	Sussex.....	180	45	32.0	+3.8	71	10	2	27	1.44	-1.78	0.90	20-21	2.7	6	10	7	14	sw.	A. M. Depue.	
Little Falls.....	Passaic.....	157	43	35.8	+3.3	72	9	13	31	2.27	-1.40	1.32	20-21	1.0	9	13	10	8	nw.	Passaic Valley Water Co.	
Long Branch.....	Monmouth.....	34	38	37.8	+3.4	73	10	15	3	3.12	-0.51	1.38	20	T.	8	9	10	12	w.	Storm Warn. Display Sta.	
Long Valley.....	Morris.....	660	16	33.0	+3.2	69	10	10	27	2.05	-1.19	1.40	20-21	3.0	5	15	7	9	sw.	Arthur Barkman.	
Marlton, 1 mile W.....	Burlington.....	90	5	.....	.....	.....	.....	.....	.....	3.10	.....	2.23	20-21	0.8	9	14	9	8	sw.	David Griscom.
Mays Landing.....	Atlantic.....	50	2	.....	.....	.....	.....	.....	.....	2.65	.....	1.15	20-21	1.0	8	15	6	10	nw.	Elmer Earle.
Millville.....	Cumberland.....	60	6	.....	.....	.....	.....	.....	.....	2.52	.....	1.31	20	.....	8	14	10	7	.....	Paul Ritchie.
Moorestown.....	Burlington.....	62	83	36.6	+2.8	70	10	15	2	1.10	-2.33	0.32	21	T.	8	.....	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	5	35.4	.....	71	10	9	27	2.16	.....	1.51	20-21	3.0	6	16	2	13	.....	James C. Long.
Newark.....	Essex.....	10	92	37.0	+3.6	72	10	16	3	2.38	-1.39	1.79	20-21	2.3	7	7	8	16	sw.	U. S. Weather Bureau.	
New Brunswick.....	Middlesex.....	86	92	36.9	+3.5	70	10	12	3	2.42	-1.01	1.45	20-21	1.4	8	10	11	10	sw.	N. J. Experiment Station.	
New Milford††.....	Bergen.....	12	28	.....	.....	.....	.....	.....	.....	2.08	-0.95	0.69	21	.....	8	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	63	31.8	+1.6	68	10	3	31	2.06	-1.38	1.40	20-21	1.8	5	3	18	10	w.	Irving J. Kern.	
Orange††.....	Essex.....	140	6	.....	.....	.....	.....	.....	.....	2.39	.....	1.72	21	.....	6	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	95	75	35.2	+1.9	71	10	13	27†	1.96	-1.79	0.77	20-21	2.0	8	11	14	6	w.	J. W. Cook.	
Pemberton.....	Burlington.....	55	17	38.0	+2.6	72	10	13	3†	2.83	+0.37	1.95	20-21	0.5	9	15	8	8	nw.	Charles A. Doehlert.	
Phillipsburg.....	Warren.....	182	63§	32.5	+0.9	67	10	11	2	1.29	-2.21	0.39	20	2.5	7	11	8	12	Town Engineer.
Plainfield.....	Union.....	120	58	35.6	+2.6	71	10	12	3	2.58	-1.03	1.37	20-21	2.3	8	9	11	11	uw.	S. K. Pearson.	
Plain-boro.....	Middlesex.....	110	5	.....	.....	.....	.....	.....	.....	2.42	.....	1.38	20-21	.....	5	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	48	39.1	+4.1	69	28	11	3†	2.04	-1.73	1.02	20-21	1.3	7	9	9	13	nw.	N. J. Dept. of Conservation.	
Rahway.....	Union.....	20	7	.....	.....	.....	.....	.....	.....	2.87	.....	.....	.....	.....	8	16	4	11	nw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	29	35.0	+3.1	70	10	14	3†	2.60	-0.58	1.55	20-21	2.5	8	11	12	8	nw.	George P. Kirsten.	
Runyon††.....	Middlesex.....	18	23	32.2	+0.8	69	10	6	3	2.96	-0.15	2.00	20-21	1.2	7	.....	.....	.....	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	2	36.3	.....	72	10	15	2†	2.65	.....	1.21	20-21	3.1	8	10	2	19	nw.	Harold Scott.
Sandy Hook.....	Monmouth.....	15	48	38.7	+3.5	65	10†	16	2	2.86	-1.18	1.29	20-21	1.1	7	5	20	6	w.	U. S. Coast Guard.	
Somersville.....	Somerset.....	65	63	35.4	+2.8	72	10	10	3	2.18	-1.32	1.23	20-21	2.1	8	13	5	13	w.	William E. Haver.	
Sussex.....	Sussex.....	450	51	32.4	+2.4	70	10	7	27	1.61	-1.67	0.50	20†	2.8	6	14	4	13	sw.	Marshall Hunt.	
Toms River.....	Ocean.....	33	25	.....	.....	.....	.....	.....	.....	3.05	-0.92	2.00	20-21	1.0	8	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	74	37.8	+3.4	70	10	14	2	2.36	-0.99	1.71	20-21	1.0	6	7	12	12	nw.	U. S. Weather Bureau.	
Trenton No. 2.....	.....do.....	105	16	37.4	+3.5	70	10	15	2†	2.73	-0.30	1.89	20-21	0.3	7	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	53	39.7	+3.6	68	9†	12	3	2.44	-1.39	1.85	20-21	1.0	8	13	5	13	w.	John H. Brown.	
Vineland.....	Cumberland.....	110	66	.....	.....	.....	.....	.....	.....	2.43	-1.24	1.22	20-21	.....	8	18	3	8	s.	Robert Jones.
Westfield.....	Union.....	145	7	.....	.....	.....	.....	.....	.....	2.35	.....	1.70	20-21	2.5	5	17	5	9	w.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	23	.....	.....	.....	.....	.....	.....	2.01	-1.06	0.79	21	.....	8	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	.....	10	76	38.2	+3.2	69	10	15	31	2.45	-1.17	1.78	20-21	2.0	7	9	10	12	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	10	76	39.9	+3.6	66	10	16	2	2.76	-0.67	2.15	20-21	T.	5	6	12	13	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	36.5	+2.9	74	10	2	27	2.38	-1.15	2.68	20-21	2.0	7	12	9	10	nw.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

* Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for December 1946

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast		T.								T.		.08	.03		T.	T.	T.	.09		.70	.72							.10	.25		.01	1.98	
Bass River	do.												.10	.08				.08	.02		.30	1.40							.12	.10			2.20	
Belleplain	Tuckahoe												.20	.13				.04	.04		1.37	.95							.08	.19	T.		3.00	
Belmar ²	Coast										T.	T.									.30	1.55							.12	.44	.08		2.74	
Belvidere	Delaware												.25					T.											.12	.44			2.72	
Berlin	Mullica											.05						T.		T.	1.65	.67						T.		.35			2.72	
Boonton ²	Passaic												T.	.09				.02			.85	.11							.10		.32		1.49	
Bridgeton	Delaware												.12	.10					.20		.31	1.60							.10	.12			2.55	
Brooklawn	do.												.10	.10							.08	1.69							.09	.47			2.43	
Burlington	do.												.36								.20	.95							.11	.35			1.97	
Canoe Brook ³	Passaic													.42				.02			*	1.55							.04		.05		2.08	
Canton	Delaware											.09	.06					.08			.95	.20							T.	.14	.04		1.56	
Cape May ¹	Coast												T.	.07		.01			.15		.43	.67							.09	.34	.10		1.33	
Charlotteburg	Passaic												.10	.10					.02		.05	1.46								.09	.34	.10		2.26
Chatham ²	do.												.38					.01			1.05	.45							.12	.01	.44		2.46	
Chatsworth	Coast												.31								*	1.98								.21			2.68	
Clayton	Delaware												.11	.06					T.		.41	1.47							.09	.17			2.31	
Clinton	Raritan												.14	.09					.01		.25	1.20							.13	.33	.02		2.17	
Culvers Lake	do.												.08	.09							.13	1.45							.03	.43	T.		2.21	
Elizabeth	Coast											T.	.10	.07				.04	T.		.32	.03							.20	.39	.04		1.19	
Essex Falls	Passaic												T.	.32					T.			1.00	.47						.50		.46		2.45	
Flemington	Raritan												.16						.12		.20	1.09							.15	.28	.22		2.22	
Freehold	do.												.14	.11			T.		.02		.19	2.68							.13	.39			3.66	
Hammontou	Mullica										.28		.08						.10		*	2.25							.53	.44			3.68	
Hightstown	Raritan											T.	.14	.04			T.		.03	T.	.18	2.19							.13	.36	.02		3.09	
Indian Mills	Mullica												.16	.06					.15		.24	1.90							.05	.21	.05		2.82	
Jersey City ²	Coast										.04								.15		.75	1.05							.09	.45			2.53	
Lakewood	Metedeconk												.18	.19					.18	.12	.39	1.90							.19				3.22	
Lambertville	Delaware												.20	.12					.02		*	1.46							.10	.41	.02		2.33	
Layton	do.												.01	.03							*	1.05							.04	.31	T.		1.44	
Little Falls ³	Passaic												.04	.12					.02	.01		1.32	.25						.11	.10	.30		2.27	
Long Branch ^{2†}	Coast											T.	.20	.07			T.		.01	.02		1.38	1.03						.12	.29			3.12	
Long Valley ²	Raritan												.27						.13			1.40	T.							.07	.18			2.05
Manville	do.												.15					.02			.67	.90											2.02	
Marlton	Delaware												.14	.04					.04	.04		.22	.23						T.	.28			3.10	
Mays Landing	Gt. Egg Harbor												.03	.09			T.		.06	.12		1.08	1.15						.04	.08			2.65	
Midland Park	Passaic												.15						.04		.66	.88							.01	.09	.42		2.25	
Millville ^{2†}	Maurice												.06	.01					.02	.17		1.31	.71						.08	.16			2.52	
Moorestown ²	Delaware											T.	.13	.09					.03	.01		.20	.32						T.	.02	T.	.30		1.10
Morris Plains	Passaic												.10	.08							.05	1.46	T.						.14	.33	T.		2.16	
Newark ¹	Coast												.10	.01					.05	T.		.80	1.01						T.	.14	.27			2.38
New Brunswick	Raritan												.10	.16					.04			.14	1.45						.11	.31	.11		2.42	
New Milford ^{2†}	Hackensack												.12	.10					.04			.67	.69						.02	.08	.36		2.08	
Newton	Delaware												.16									1.20	.20							.06	T.	.44		2.06
Orange ^{2†}	Passaic												.06	.09					.02			1.72							.11	.39			2.39	
Paterson ²	do.												.15	.01					.03	T.		.53	.77						T.	.03	.10	.36		1.96
Pemberton	Delaware												.18	.06					.01	.07		.18	1.95						.06	.28	.04		2.83	
Phillipsburg	do.												.23	.04								.39	.36						T.	T.			.09	1.29
Plainfield	Raritan												.11	.09						.02	.01		.39	1.37						.19	.40			2.58
Plainsboro	do.												.42									.20	1.38							.22	.20			2.42
Pleasantville ²	Coast												.02	.12						.13	T.		1.02	.52						.05		.18		2.04
Rahway ^{2†}	Railway												.13	.03					.04		*	1.63								.18	.36			2.37
Ridgefield	Hackensack												.07	.05					.04	.01		.30	1.55							.13	.45	T.		2.60
Ridgewood	Passaic												.10	.16					.02		*	1.05	.26						T.	.09	.15	.32		2.15
Rumson	Coast												.18	.11					.03		*	2.18								.10	.36			2.96
Rutherford	Passaic												.10	.14					.03	T.		.52	1.21							.19	.46			2.65
Sandy Hook ^{2†}	Coast												.07	.10					.02			.91	1.29							.07	.40			2.86
Somerville	Raritan												.13	.06					.01			.21	1.23							.15	.38	.01		2.18
Sussex	Hudson												.10	.11								.50	.20											

Daily Temperatures for December 1946

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	63	40	34	48	51	49	51	55	56	60	58	59	60	45	39	44	55	46	33	57	57	44	50	57	47	51	47	61	63	50	50.1	
	Minimum...	40	18	16	27	39	40	38	34	46	48	41	41	39	34	29	28	44	28	26	26	39	36	32	43	33	25	21	42	37	24	33.3	
Belleplain.....	Maximum...	62	52	34	40	54	52	55	55	66	70	60	63	65	62	41	40	66	53	35	41	57	41	44	59	50	52	46	68	65	58	52.8	
	Minimum...	48	24	15	18	20	30	34	24	39	33	40	29	40	24	24	24	28	28	18	13	40	35	27	35	35	23	15	32	31	33	28.0	
Belvidere.....	Maximum...	49	39	37	44	50	47	50	51	61	67	60	50	60	53	35	35	43	42	34	31	35	41	37	45	40	43	30	51	44	34	44.2	
	Minimum...	37	14	15	20	19	29	34	26	36	43	36	27	37	32	24	24	32	31	19	18	26	33	27	26	26	15	25	25	23	14	26.4	
Boonton/.....	Maximum...	52	42	34	44	49	43	50	54	59	69	48	61	55	38	34	37	49	37	33	37	34	39	42	45	35	42	35	51	47	29	43.6	
	Minimum...	24	16	12	19	18	20	22	24	25	38	41	25	31	30	21	23	23	34	18	16	21	35	29	29	31	26	11	14	25	24	11	23.7
Bridgeton.....	Maximum...	61	48	32	44	54	54	53	55	61	66	58	60	62	44	40	39	56	50	37	45	54	44	45	56	43	51	40	68	60	48	50.4	
	Minimum...	43	18	14	20	22	34	32	29	38	39	40	33	42	28	27	25	31	30	20	20	34	33	28	33	33	28	17	32	34	30	18	29.2
Burlington.....	Maximum...	58	38	28	40	62	45	53	52	63	70	52	62	67	42	37	38	53	45	33	40	42	40	46	50	43	47	32	58	40	43	33	46.5
	Minimum...	36	17	17	25	30	36	34	28	43	47	42	41	40	33	25	34	30	26	25	37	37	32	36	33	21	20	31	32	23	20	31.0	
Canoe Brook/.....	Maximum...	53	23	35	45	52	45	54	55	62	74	51	62	54	40	35	37	47	42	35	36	37	42	45	48	37	45	33	51	37	31	30	44.3
	Minimum...	33	14	10	17	15	22	17	21	32	36	41	20	31	27	23	18	26	35	12	12	23	34	28	24	27	19	11	20	25	25	9	22.8
Cape May.....	Maximum...	61	53	33	45	53	54	53	54	59	61	51	57	59	49	46	40	58	50	38	50	57	43	46	56	48	50	35	60	57	53	38	50.5
	Minimum...	52	21	26	33	25	40	37	30	43	44	46	38	48	39	32	36	33	31	27	26	41	36	36	42	36	30	19	34	40	36	20	34.7
Charlotteburg.....	Maximum...	50	34	31	42	50	51	50	58	62	70	65	55	59	41	36	34	46	43	34	29	38	38	41	42	42	34	31	52	41	38	26	44.0
	Minimum...	34	10	12	20	18	13	16	24	36	47	30	20	40	24	24	19	22	29	14	9	26	29	30	30	24	19	6	21	21	20	9	22.5
Chatsworth.....	Maximum...	63	40	35	45	55	50	66	57	68	74	63	59	63	44	37	38	54	47	33	40	53	45	45	53	51	51	41	66	66	55	33	51.3
	Minimum...	40	14	13	14	15	26	26	24	54	37	43	23	43	24	15	27	29	17	12	39	33	23	31	30	23	11	29	31	33	14	26.3	
Clayton.....	Maximum...	59	47	32	43	52	50	52	54	65	67	58	61	62	43	38	37	52	47	31	41	42	43	43	53	42	50	39	66	59	52	30	48.7
	Minimum...	44	15	14	20	30	34	39	29	39	43	42	30	39	29	23	28	29	30	24	27	35	35	28	35	25	27	19	29	36	28	16	29.7
Elizabeth.....	Maximum...	54	45	34	47	52	51	53	54	60	72	65	53	63	43	36	38	47	47	25	34	41	43	44	48	41	45	34	51	48	39	30	46.4
	Minimum...	40	14	10	17	34	29	23	24	36	39	26	40	26	23	18	29	28	20	26	29	33	28	26	28	22	12	25	26	25	14	26.1	
Flemington.....	Maximum...	51	45	35	46	53	47	52	56	66	72	63	45	62	41	38	38	48	47	34	32	38	43	41	48	43	47	33	55	34	37	29	45.9
	Minimum...	35	14	14	18	18	26	23	25	33	43	40	27	40	29	23	21	31	32	20	18	28	34	29	25	29	26	14	25	27	27	14	26.1
Freehold.....	Maximum...	56	42	34	45	53	48	55	52	63	70	60	57	61	41	35	38	51	46	32	37	47	42	43	49	42	46	32	57	51	41	29	46.9
	Minimum...	41	12	13	21	24	33	24	30	40	45	41	33	39	25	22	30	29	18	17	34	34	28	33	28	26	13	27	28	26	13	27.6	
Hammononton.....	Maximum...	55	46	34	41	56	56	51	58	68	71	61	63	68	58	45	38	55	48	39	37	45	45	46	65	45	51	45	70	65	47	35	51.4
	Minimum...	38	16	16	19	21	28	38	27	40	48	39	29	37	32	18	27	26	30	23	24	31	29	35	29	21	26	18	28	29	21	20	27.8
Hightstown.....	Maximum...	54	41	33	46	51	47	63	53	61	71	62	55	62	41	35	37	48	47	32	35	43	42	41	48	42	45	33	55	34	38	31	45.7
	Minimum...	38	13	11	18	19	26	25	26	37	43	40	28	40	27	23	18	27	29	18	15	31	33	29	28	30	25	13	26	28	30	14	26.1
Indian Mills.....	Maximum...	62	45	33	45	54	50	55	56	68	71	59	60	63	43	37	38	53	49	31	41	51	44	44	53	41	49	39	67	58	44	29	49.4
	Minimum...	40	15	9	13	15	28	26	24	36	42	35	23	41	24	21	14	26	28	16	11	38	33	26	31	30	24	10	29	32	38	11	25.1
Jersey City*.....	Maximum...	50	33	30	42	48	43	46	52	51	68	58	54	60	38	34	45	42	29	34	38	40	40	46	41	40	32	48	38	37	28	42.4	
	Minimum...	33	14	16	24	31	31	28	36	42	48	38	35	32	30	26	24	34	27	22	26	34	32	30	36	28	18	14	30	26	19	14	28.3
Lakewood.....	Maximum...	60	43	34	44	53	45	51	54	65	71	60	57	60	42	36	36	54	48	31	44	49	43	45	49	41	48	33	63	53	48	29	48.0
	Minimum...	38	15	14	21	18	30	28	39	44	35	30	29	22	20	29	28	20	16	39	20	16	39	43	45	33	26	14	28	31	25	11	26.9
Lambertville.....	Maximum...	53	40	35	46	53	49	55	57	67	74	61	42	62	41	35	39	49	46	33	34	39	42	42	49	46	33	53	49	38	29	46.1	
	Minimum...	35	15	15	17	18	24	25	25	33	42	35	29	41	29	25	20	32	28	17	16	32	35	30	26	28	14	26	28	27	15	26.1	
Layton.....	Maximum...	50	44	32	42	51	47	49	49	62	71	64	41	59	37	33	33	44	42	31	26	35	39	39	43	41	31	27	47	48	39	29	42.5
	Minimum...	29	11	7	12	13	20	23	22	33	39	32	18	32	23	21	18	27	28	10	10	23	33	29	24	30	18	2	23	22	29	5	21.5
Little Falls/.....	Maximum...	54	26	33	45	53	43	55	60	72	60	50	63	51	39	34	37	48	40	35	35	40	41	43	55	40	43	37	53	41	30	30	44.7
	Minimum...	34	15	16	24	20	27	22	25	43	41	45	26	33	29	27	22	27	35	19	17	27	35	32	37	30	26	14	20	25	26	13	26.8
Long Branch*.....	Maximum...	57	36	35	45	54	47	52	54	57	73	58	61	62	40	36	36	53	43	32	48	47	43	45	48	40	46	34	63	47	42	29	47.2
	Minimum...	38	16	15	23	24	35	29	31	43	50	35	31	34	29	25	23	31	27	21	20	37	33	30	36	27	21	16	32	31	21	18	28.5
Long Valley/.....	Maximum...	49	22	37	44	51	46	50	52	61	69	48	58	51	38	33	36	46	37	32	37	36	40	39	45	35	44	32	48	37	30	31	42.4
	Minimum...	32	12	13	17	15	25	22	32	41	39	22	38	25	23	20	29	32	15	13	24	31	28	26	28	23	10	16	25	22	11	23.7	
Moorestown*.....	Maximum...	56	23	33	45	52	48	55	52	66	70	56	63	63	41	36	37	52	38	31	39	42	42	46	50	41	47	30	61	39	35	30	45.8
	Minimum...	29	15	16	22	21	30	28	29	41	45	32	32	37	31																		

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

UNIVERSITY OF ILLINOIS

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION.

A. E. WHITE.
TRENTON, N. J.

VOL. LI.

ANNUAL SUMMARY, 1946

No. 13

GENERAL SUMMARY

The year, 1946 averaged the warmest of any year since 1931. All months were warmer than normal except July and August. The most unseasonable month was March with a temperature departure of $+8.5^{\circ}$. The highest temperature was 99° in June. January and February had sub-zero readings at several stations, but zero was not reached in December. The growing season or period between the last killing frost in spring and first killing frost in autumn, exceeded 200 days in South and Central Jersey but dropped to as low as 146 days at a few stations in the extreme north.

All months had less than normal precipitation except May, June and July. The wettest month was May and the driest was November, but April and October were almost as dry, and at certain stations, January was the driest month. Annual snowfall was the least since 1931 and was one of the three least of record since 1895. Notwithstanding the numerous dry months, the abundant rainfall in May, June and July was sufficient with the near normal amounts of August and September, to produce good yields of most staple crops. There were no destructive storms during the year and flood stage was not reached in the Delaware River or any of the larger streams.

WEATHER BY MONTHS

JANUARY: It was the mildest January since 1937 and one of the three driest of record. Only three stations reported sub-zero temperature. Snowfall was unusually light and the most snow fell in the extreme south.

FEBRUARY: Temperature averaged almost the same as for January preceding. A warm wave on the 27th sent temperatures to the upper seventies in South Jersey. Four stations reported sub-zero readings during the month. Precipitation was only 62 percent of normal. Snowfall, though somewhat below normal, was much greater than for any other month of the year.

MARCH: While not as warm as in 1945, this was the third warmest March of record in New Jersey. Precipitation was 83 percent of normal. There were only traces of snow and many stations reported none at all.

APRIL: The month was near normal for temperature but precipitation was only 42 percent of normal. The last killing frost of spring occurred on the 18th at many stations.

MAY: Temperature this month was also near normal. There was a severe freeze in the cranberry bogs and killing frost at some upland stations on the 9th. This was the wettest month of 1946 and the wettest May since 1908. Several stations had over 10 inches of rain. Soil moisture was replenished for the crop season.

JUNE: June was also a rather wet month with 137 percent of normal rainfall. It was the coolest and wettest since 1938 but there was no unusually cool period and no extended heat wave. Heavy rains on the 1st-2d caused the only rise of consequence in the Delaware River during the year.

JULY: Temperature averaged near normal. There was no long heat wave but several days with readings above 90° . Rain-

fall was 126 percent of normal for the State but was somewhat below normal on the coast.

AUGUST: It was the coolest August since 1937 and third coolest of record in New Jersey. Rainfall was slightly below normal but varied greatly ranging from 2.03 at Tuckerton to 8.20 inches at Toms River only about 25 miles away.

SEPTEMBER: The month was generally warm though light frost occurred about the middle of the month in the cranberry bogs and at a few upland stations. Rainfall was slightly below normal. There was no destructive storm and the month was favorable for agriculture.

OCTOBER: This was one of the four warmest Octobers of record. There was no killing frost except in the extreme north part of the State. It was the driest October since 1928 with only 41 percent of the normal precipitation. With many clear

(Continued bottom next page)

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885	50.4	100	-2	37.87				
1886	50.8	98	-10	46.54				
1887	51.3	102	-6	47.66				
1888	50.2	99	-12	52.20				
1889	52.8	95	-3	63.33				
1890	53.1	101	0	49.34				
1891	53.2	102	1	47.98				
1892	51.5	105	-6	42.04				
1893	50.7	103	-21	47.90				
1894	53.0	106	-11	47.37				
1895	51.5	109	-12	37.29	25.7			
1896	52.1	105	-15	42.51	39.5			
1897	52.0	102	-6	51.72	25.8			
1898	53.1	107	-15	52.35	34.3			
1899	52.1	103	-21	45.84	44.3	107	148	120
1900	53.8	104	-9	42.71	23.3	108	146	127
1901	51.3	107	-12	51.80	14.1	116	141	116
1902	51.9	100	-11	59.44	40.1	124	148	116
1903	51.7	100	-16	56.25	22.3	116	151	108
1904	49.2	100	-34	43.78	48.5	113	160	107
1905	51.2	102	-18	42.06	32.9	109	160	114
1906	52.7	98	-15	46.38	23.4	121	146	112
1907	50.3	96	-22	51.65	54.1	128	141	99
1908	52.6	106	-17	42.58	35.3	103	145	115
1909	51.9	100	-15	40.86	29.9	114	137	116
1910	51.8	99	-15	39.73	33.3	114	123	123
1911	52.6	104	-12	50.36	30.0	129	121	121
1912	51.3	100	-32	46.61	35.1	115	137	124
1913	54.0	100	-11	46.99	5.2	111	173	97
1914	51.2	99	-12	39.23	41.1	107	149	108
1915	52.4	98	3	47.37	39.4	114	145	115
1916	51.0	100	-18	38.17	49.6	121	159	100
1917	49.5	104	-21	40.80	40.4	117	166	96
1918	51.6	108	-23	37.65	25.3	108	167	96
1919	52.6	103	-11	52.10	10.9	131	161	80
1920	51.2	98	-17	51.87	33.4	127	158	94
1921	54.2	100	-5	38.16	23.0	115	167	90
1922	52.6	98	-11	41.57	30.8	119	169	90
1923	51.9	106	-14	40.38	39.8	112	172	92
1924	50.6	102	-6	44.17	24.3	102	177	96
1925	52.2	103	-20	42.15	26.8	111	165	97
1926	50.0	105	-11	44.41	32.2	122	157	95
1927	52.0	99	-12	49.68	13.7	125	156	90
1928	52.0	99	-15	46.22	21.5	125	158	97
1929	52.3	102	-9	42.96	16.0	118	162	87
1930	52.7	105	-14	35.28	15.6	99	172	89
1931	54.4	102	-9	37.07	8.6	106	160	82
1932	53.4	100	-10	46.80	16.3	111	169	95
1933	52.9	105	-18	49.80	21.5	121	158	88
1934	51.6	103	-26	45.43	32.7	117	169	85
1935	51.6	101	-31	42.32	36.2	118	155	89
1936	52.3	110	-17	47.57	22.1	119	163	87
1937	53.0	103	0	47.61	11.1	114	161	84
1938	53.3	110	-19	52.52	23.1	133	151	88
1939	53.0	99	-16	42.95	18.4	113	152	92
1940	50.1	104	-13	48.43	28.1	121	144	92
1941	53.6	105	-7	37.23	32.6	98	192	82
1942	52.6	105	-23	50.52	16.8	118	158	90
1943	52.0	102	-25	39.02	17.7	102	145	102
1944	52.5	104	-14	46.78	27.7	104	152	98
1945	52.6	100	-11	52.39	37.6	133	145	87
1946	53.9	99	-9	39.54	10.7	106	159	87
Period	52.0	110	-34	45.58	28.4	116	155	100

Climatological Data for the Year 1946

Stations	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)						Total snowfall (unmelted)	Number days with .01 or more	Sky			Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month			Number clear days	Number partly cloudy days	Number cloudy days	
Atlantic City	Atlantic	8	73	55.3	91	June 8	12	Feb. 4	73	31.87	4.74	May	1.37	Nov.	9.1	111	97	96	172	s.
Belleplain	Cape May	49	52		93	July 21	3	Jan. 28	52	41.62	7.64	July	1.62	Nov.		106				sw.
Belmar	Monmouth	19							5	38.10	7.08	Aug.	1.16	Nov.		121				sw.
Belvidere	Warren	289	54	53.5	96	June 25	3	Feb. 22	54	43.23	7.39	May	1.03	Nov.	15.2	109	188	55	122	nw.
Berlin, 1 mile W.	Camden	70							5	40.19	6.98	July	0.90	Oct.		80	180	84	101	nw.
Boonton	Morris	280	38	51.1	91	June 25	1	Feb. 22	56	40.07	8.60	May	0.81	Nov.		102				nw.
Bridgeton	Cumberland	30	58	56.1	93	June 26†	6	Jan. 28	63	40.21	7.92	May	1.40	Oct.	13.8	100				nw.
Brooklawn	Camden	30							5	34.77	6.49	June	0.92	Oct.		63				w.
Burlington	Burlington	12	34	57.6	98	July 20	9	Jan. 20†	60	35.39	5.85	June	0.86	Oct.	9.0	88				w.
Canoe Brook	Essex	180	16		94	July 19	-2	Feb. 22	16	45.48	7.94	June	1.29	Apr.		114	181	85	99	w.
Cantou	Salem	30							1	38.31	6.84	May	1.36	Jan.		105				
Cape May	Cape May	17	21						11	Jan. 20	58									
Charlotteburg	Passaic	760	54	51.0	91	July 19	-11	Jan. 20	54	45.13	8.68	July	1.01	Nov.	18.0	113				w.
Chatham	Morris	185							42	46.30	7.49	June	1.33	Apr.		121				
Chatsworth	Burlington	90	6	54.8	97	July 20	5	Jan. 28	6	37.52	5.71	May	1.16	Oct.		80	140	135	90	w.
Clayton	Gloucester	120	33		96	July 20			33		8.34	July								
Clinton	Raritan	300							3	40.15	7.29	May	1.06	Apr.	10.8	119	184	59	122	nw.
Culvers Lake	Sussex	760							45	30.58	6.15	May	0.70	Nov.	16.5	93				
Elizabeth	Union	34	62	54.6	99	June 27	6	Jan. 20	67	45.16	8.49	July	1.19	Dec.	11.4	124				nw.
Essex Fells	Essex	250							1	44.00	8.15	May	1.12	Nov.		79	154	59	152	nw.
Flemington, 2 mi. NE	Hunterdon	140	49	54.9	96	July 18	3	Feb. 22	60	39.55	7.01	June	1.20	Apr.	10.5	115				w.
Freehold	Monmouth	194	15	54.4	97	July 20	7	Jan. 20†	42	44.72	8.05	July	1.49	Nov.	10.7	108				sw.
Hammonton	Atlantic	95	14	54.9	96	July 20	1	Jan. 23	40	43.15	6.68	May	1.19	Nov.	5.0	90	141	92	132	sw.
Hightstown	Mercer	110	50	53.8	98	July 20	4	Jan. 23	53	41.07	7.41	June	1.48	Nov.	8.3	110	151	126	88	sw.
Indian Mills, 2 mi. W.	Burlington	100	56	54.4	96	July 20	6	Jan. 23	57	39.93	6.26	July	1.27	Oct.	5.8	110	138	136	91	nw.
Lakewood	Hudson	81	48	52.7	92	July 7	4	Jan. 20	48	39.07	7.52	May	0.96	Oct.		103				sw.
Lambertville	Ocean	54	42	54.5	97	July 20	10	Jan. 20†	42	41.17	7.06	Aug.	1.27	Oct.	2.0	112	92	147	126	nw.
Layton, 3 mi. NW	Hunterdon	75	59	53.6	95	July 20	5	Jan. 23	59	39.00	6.75	June	0.82	Apr.	7.5	106	159	71	135	sw.
Little Falls	Sussex	480	45	50.3	95	July 19	-9	Jan. 22	45	31.87	7.49	May	0.46	Jan.	18.1	100	155	44	166	sw.
Long Branch	Passaic	157	32	53.5	94	July 7	5	Jan. 20	43	47.02	11.10	May	1.41	Nov.	15.0	120	149	113	103	nw.
Long Valley	Monmouth	34	38	54.1	94	July 20	9	Jan. 20	38	36.95	5.43	June	1.05	Nov.	1.6	114	137	95	133	sw.
Manville	Morris	660	16	51.0	92	June 25†	-4	Feb. 22	16	40.09	6.19	July	1.18	Apr.	18.0	95	191	99	75	sw.
Marlton, 1 mi. W.	Somerset								1	34.06	6.71	July	0.70	Apr.		74				
Mays Landing	Burlington	90							5	39.70	6.28	May	1.12	Oct.	6.4	106	177	79	109	sw.
Millville	Atlantic	50							2	37.92	5.88	May	1.24	Oct.	10.5	112	190	47	123	nw.
Moorestown	Cumberland	60							6	34.88	5.87	May	1.01	Oct.	9.5	102	177	75	113	
Morris Plains, 1 mi. W.	Burlington	62	83	54.0	95	July 20	8	Jan. 23	83	34.06	5.50	May	1.10	Dec.	4.0	114				
Newark	Morris	500	5	52.2	91	July 19†	-1	Feb. 22	5	46.88	7.02	July	1.22	Nov.	15.5	102				
New Brunswick	Essex	10	47	54.5	95	June 26†	5	Jan. 20	92	40.20	7.28	May	1.03	Oct.	12.2	107	100	93	162	sw.
New Milford	Middlesex	86	89	54.2	95	July 20	6	Jan. 20	92	38.38	7.70	July	1.00	Apr.	8.0	105	188	56	121	sw.
Newton	Bergen	12							28	45.06	10.07	May	1.23	Oct.		101				
Orange	Sussex	769	63		92	July 19			63	34.77	6.28	July	1.02	Nov.	14.9	117				sw.
Patterson	Essex	140							6	44.19	8.93	May	1.08	Oct.		107				
Pemberton	Passaic	95	76	53.6	93	June 26†	4	Jan. 20	75	48.99	10.42	May	1.28	Jan.	12.8	106	149	121	95	w.
Phillipsburg	Burlington	55	17	55.6	97	July 20†	10	Jan. 20	17	38.24	7.55	June	1.09	Oct.	2.0	112	178	88	99	sw.
Plainfield	Warren	182	55	50.9	91	June 25†	5	Feb. 22	63	41.16	6.88	May	0.99	Apr.	13.5	115	146	112	107	
Plainsboro	Union	120	55	53.6	96	July 20	5	Jan. 20	58	42.45	6.83	July	1.43	Apr.	12.0	117	119	121	125	sw.
Pleasantville	Middlesex	110							5	37.77	6.67	June	1.20	Jan.		68				
Rahway	Atlantic	8	23	54.8	92	June 8	-4	Jan. 28	48	35.69	6.86	May	1.43	Sept.		112				s.
Ridgefield	Union	20							7	37.48	7.52	July	1.24	Apr.		102	144	106	115	nw.
Ringwood	Bergen	80	29	53.2	95	July 19	4	Jan. 20	29	43.17	9.20	May	1.02	Oct.	14.7	108	138	114	113	nw.
Rumson	Passaic								1	41.25	7.69	July	0.91	Nov.		91				
Rutherford	Middlesex	18	22	51.5	97	July 20	-5	Jan. 21	23	36.93	7.09	July	0.62	Nov.		118				w.
Sandy Hook	Bergen	51	2	53.6	91	June 26†	4	Jan. 20	2	47.12	10.02	May	1.31	Oct.		124				
Somerville	Monmouth	15	48	54.9	94	July 20	9	Jan. 20	48	36.05	6.29	May	0.94	Oct.		107	94	171	100	w.
Sussex	Somerset	65	60						63	32.91	7.68	July	0.92	Jan.	3.8	85	137	106	122	w.
Toms River	Sussex	450	48	51.4	95	July 20	-3	Feb. 22	51	34.01	7.30	May	0.75	Nov.	12.6	116	130	42	193	w.
Trenton	Ocean	33							25	42.85	8.20	Aug.	0.88	Oct.		104				
Trenton No. 2	Mercer	56	74	55.1	97	July 20	8	Jan. 20	74	32.90	6.03	June	1.16	Apr.	9.5	108	101	116	148	s.
Tuckerton	Mercer	105	16	55.0	97	July 20	8	Jan. 20	16	38.38	6.05	June	1.26	Apr.	8.8	107				
Vineland	Ocean	23	48	55.0	92	July 20†	8	Feb. 4	53	31.84	5.55	May	1.07	Oct.	8.0	101	180	61	124	sw.
Wanaque	Cumberland	110							66	36.36	6.51	May	1.09	Jan.		90	184	98	83	w.
Westfield	Passaic	145							1	45.59	8.93	Sept.	0.86	Nov.	13.7	110				
Woodcliff Lake	Union	103							7	40.85	7.70	July	1.17	Oct.	12.0	85	186	58	121	sw.
New York, N. Y.	Bergen								28	43.71	8.63	May	1.18	Oct.		101				
Philadelphia, Pa.		10	76	54.9	92	July 20	5	Jan. 20	76	33.87	5.85	May	0.79	Oct.	10.0	106	118	106	141	nw.
For the State		26	76	56.9	95	July 20	11	Jan. 20	76	40.88	8.61	June	1.22	Oct.	4.5	107	112	104	149	sw.
				53.9	99	June 27	-9	Feb. 22		39.54	11.10	May	0.46	Jan.	10.7	106	159	87	119	sw.

Figures and letters following station indicate distance in miles and direction of station from the city or town. † Also on other dates.

(Continued from front page)

sunshiny days, the month was ideal for harvesting crops and all outdoor activities. No snow was recorded.

NOVEMBER: It was the mildest November since 1931 and the third warmest since 1885. Generally killing frosts did not occur until the third week. The month was dry with only 44

percent of normal precipitation. The only snow reported was a trace at two stations.

DECEMBER: The month averaged about 3° warmer than normal, and no station recorded as low as zero. Precipitation was much below normal and snowfall was unusually light.

Monthly and Annual Precipitation for the Year 1946, with Departures from the Normal.

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Atlantic City.....	2.77	-0.72	1.97	-1.39	3.58	-0.02	1.89	-1.10	4.74	+1.69	3.41	+0.37	3.87	-0.06	2.92	-1.57	1.93	-0.72	1.44	-1.76	1.37	-1.45	1.98	-1.96	31.87	-8.69
Barnegat City.....	1.96	.....	1.78	.....	2.04	.....	1.77	.....	5.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bass River.....	.....	.....	.....	.....	3.67	.....	1.73	.....	6.31	.....	4.72	.....	5.31	.....	2.53	.....	1.92	.....	1.49	.....	1.36	.....	.....	.....	.....	.....
Belleplain.....	2.33	-1.40	1.91	-1.43	3.37	-0.45	2.08	-1.52	7.52	+4.20	5.14	+1.95	7.64	+3.45	3.31	-1.17	2.31	-1.32	2.19	-1.17	1.62	-1.13	2.20	-1.34	41.62	-1.13
Belmar.....	2.36	.....	2.29	.....	2.44	.....	1.45	.....	4.40	.....	5.94	.....	3.57	.....	7.08	.....	3.14	.....	1.27	.....	1.16	.....	3.00	.....	38.10	.....
Belvidere.....	1.78	-1.89	2.98	-0.52	3.46	-0.36	1.28	-2.43	7.39	+3.71	4.98	+0.66	7.11	+2.23	4.87	+0.05	3.13	-0.65	2.18	-1.15	1.03	-2.35	2.74	-1.00	43.23	-3.70
Berlin.....	1.27	.....	1.87	.....	3.61	.....	1.68	.....	5.28	.....	6.23	.....	6.98	.....	4.47	.....	3.13	.....	0.90	.....	2.05	.....	2.72	.....	40.19	.....
Boonton.....	1.16	-2.17	2.00	-1.29	2.19	-1.37	1.52	-2.20	8.60	+4.81	3.70	-0.10	4.98	+0.64	6.10	+1.65	6.15	+2.03	1.37	-2.17	0.81	-2.79	1.49	-1.79	40.07	-4.75
Bridgeton.....	2.16	-1.36	2.50	-0.98	3.28	-0.78	2.04	-1.36	7.92	+4.42	2.52	-1.14	5.26	+0.93	6.39	+1.66	2.46	-1.04	1.40	-1.97	1.82	-1.00	2.55	-0.91	40.21	-3.53
Brooklawn.....	1.31	.....	4.21	.....	2.85	.....	0.90	.....	5.21	.....	6.49	.....	4.56	.....	3.53	.....	2.57	.....	0.92	.....	1.79	.....	2.43	.....	34.77	.....
Burlington.....	3.04	-0.40	2.47	-0.79	5.13	+1.34	1.38	2.36	4.96	+1.16	5.85	+1.83	2.83	-1.67	2.97	-2.40	1.93	-1.86	0.86	-2.62	2.01	-1.16	1.97	-1.82	35.39	-10.75
Canoe Brook.....	1.90	-1.89	2.50	-0.28	3.05	-1.55	1.29	-2.60	6.33	+2.82	7.94	+3.60	6.42	+2.16	5.43	+0.17	5.49	+0.63	1.38	-2.26	1.67	-2.16	2.08	-0.98	45.48	-2.34
Canton.....	1.36	.....	2.4	.....	2.72	.....	2.05	.....	6.84	.....	2.65	.....	5.78	.....	6.65	.....	2.45	.....	1.75	.....	2.46	.....	1.56	.....	38.31	.....
Cape May.....	1.97	-1.43	2.53	-0.65	2.52	-1.32	2.56	-0.54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.33	-2.24	.....	.....
Charlotteburg.....	1.51	-2.14	2.66	-0.98	2.64	-1.42	2.63	-1.51	7.48	+3.56	3.78	-0.58	8.68	+4.02	4.26	-0.37	5.63	+1.14	2.59	-1.65	1.01	-2.77	2.26	-1.65	45.13	-4.35
Chatham.....	1.93	-2.07	2.14	-1.39	3.16	-0.93	1.33	-2.83	6.08	+2.36	7.49	+3.31	6.45	+1.74	5.83	+0.95	6.22	+1.74	1.42	-2.38	1.79	-1.69	2.46	-1.40	46.30	-2.59
Chatsworth.....	1.87	.....	2.13	.....	3.21	.....	1.69	.....	5.71	.....	5.31	.....	5.15	.....	4.10	.....	2.76	.....	1.16	.....	1.75	.....	2.68	.....	37.52	.....
Clayton.....	.....	.....	.....	.....	.....	.....	1.67	-1.93	7.12	+3.93	4.71	+0.99	8.34	+3.78	2.44	-2.70	2.66	-0.83	1.43	-1.87	2.22	-0.64	2.31	-1.22	.....	.....
Clinton.....	1.23	.....	1.98	.....	3.68	.....	1.06	.....	7.29	.....	5.43	.....	6.07	.....	5.18	.....	2.37	.....	2.49	.....	1.29	.....	2.17	.....	40.15	.....
Culvers Lake.....	1.69	-1.42	2.12	-0.68	2.80	-0.51	0.87	-2.62	6.15	+2.74	2.76	-1.98	4.27	-0.20	2.14	-2.39	2.70	-1.48	2.17	-1.49	0.70	-2.49	2.21	-0.95	30.58	-13.47
Elizabeth.....	1.92	-1.51	2.26	-1.56	3.60	-0.47	2.01	-1.67	6.42	+2.69	6.37	+2.61	8.49	+3.54	4.79	+0.42	4.88	+0.83	1.50	-2.21	1.73	-1.51	1.19	-2.49	45.16	-1.33
Essex Fells.....	1.59	.....	2.87	.....	2.45	.....	1.37	.....	8.15	.....	4.85	.....	6.02	.....	4.88	.....	6.65	.....	1.60	.....	1.12	.....	2.45	.....	44.00	.....
Flemington.....	1.35	-2.23	1.62	-1.59	3.17	-0.59	1.20	-2.42	6.46	+2.79	7.01	+3.07	5.32	+0.23	5.49	+0.75	2.35	-1.44	2.13	-1.31	1.23	-1.98	2.22	-1.26	39.55	-5.98
Freehold.....	2.07	-1.89	2.01	-1.78	3.07	-1.42	1.60	-2.08	5.79	+2.19	7.43	+3.62	8.05	+3.36	4.19	-0.30	3.68	-0.70	1.68	-2.06	1.49	-2.44	3.66	+0.14	44.72	-3.36
Hammonton.....	1.60	-2.22	2.09	-1.21	4.52	+0.55	1.88	-1.94	6.68	+2.83	6.07	+2.22	6.21	+1.63	4.68	-0.01	3.03	-0.53	1.52	-2.07	1.19	-1.98	3.68	+0.32	43.15	-2.41
Hightstown.....	1.70	-1.71	2.10	-1.17	3.67	-0.20	1.51	-2.28	5.92	+2.20	7.41	+3.41	6.03	+1.19	3.48	-1.16	3.11	-0.70	1.64	-2.00	1.48	-1.75	3.09	-0.20	41.07	-4.40
Indian Mills.....	1.72	-2.15	2.23	-1.14	3.29	-0.72	1.50	-2.11	5.78	+2.53	6.07	+1.85	6.26	+1.76	4.52	-1.22	2.66	-1.31	1.27	-2.22	1.81	-1.31	2.82	-0.96	39.93	-7.00
Jersey City.....	1.56	-1.98	1.86	-1.65	2.99	-0.98	1.17	-2.65	7.52	+4.17	4.98	+1.29	5.03	+0.75	5.54	+1.10	3.13	-0.59	0.96	-2.52	1.80	-1.36	2.53	-0.91	39.07	-5.33
Lakewood.....	2.42	-1.43	2.62	-0.88	3.07	-0.89	1.49	-2.37	5.61	+2.28	5.85	+1.76	3.88	-0.59	7.06	+1.85	3.25	-0.23	1.27	-2.72	1.42	-1.68	3.22	-0.46	41.17	-5.36
Lambertville.....	1.31	-2.24	2.14	-1.09	4.65	+0.87	0.82	-2.91	6.64	+2.74	6.75	+2.67	4.51	-0.24	4.45	-0.18	2.28	-1.39	2.08	-1.37	1.04	-2.18	2.33	-1.21	39.00	-6.53
Layton.....	0.46	-2.48	1.58	-1.12	1.96	-1.40	0.79	-2.74	7.49	+1.19	2.89	-1.38	4.85	+0.42	3.07	-1.10	4.80	+0.89	1.87	-1.73	0.67	-2.48	1.44	-1.78	31.87	-10.71
Little Falls.....	1.58	-2.13	2.35	-1.04	2.36	-1.41	1.44	-2.78	11.10	+7.29	4.73	+0.56	6.32	+1.90	6.91	+2.12	5.03	+0.81	1.52	-2.64	1.41	-2.06	2.27	-1.40	47.02	-0.78
Long Branch.....	2.27	-1.85	2.32	-1.27	2.53	-1.59	1.57	-2.65	4.68	+1.44	5.43	+1.53	3.29	-1.30	5.35	+0.54	4.28	+0.49	1.06	-2.50	1.05	-2.34	3.12	-0.51	36.95	-10.01
Long Valley.....	1.69	-1.51	2.64	-0.10	3.92	0.00	1.18	-2.47	5.55	+1.85	6.88	+2.83	6.19	+0.73	3.84	-1.19	2.52	-1.93	2.37	-1.07	1.26	-3.22	2.05	-1.19	40.09	-4.55
Manville.....	0.89	.....	1.58	.....	2.64	.....	0.70	.....	4.42	.....	4.27	.....	6.71	.....	2.65	.....	3.93	.....	3.13	.....	1.12	.....	2.02	.....	34.06	.....
Marlton.....	1.67	.....	2.24	.....	3.58	.....	1.55	.....	6.26	.....	6.04	.....	6.48	.....	3.19	.....	2.71	.....	1.12	.....	1.76	.....	3.10	.....	39.70	.....
Mays Landing.....	2.55	.....	2.48	.....	3.83	.....	1.99	.....	5.88	.....	3.25	.....	5.40	.....	4.13	.....	2.91	.....	1.24	.....	1.61	.....	2.65	.....	37.92	.....
Midland Park.....	1.44	.....	.....	.....	3.37	.....	1.57	.....	8.63	.....	4.47	.....	5.87	.....	6.24	.....	6.10	.....	1.58	.....	1.31	.....	2.25	.....	.....	.....
Millville.....	2.20	.....	2.35	.....	4.11	.....	1.79	.....	5.87	.....	3.47	.....	4.18	.....	3.27	.....	2.76	.....	1.01	.....	1.35	.....	2.52	.....	34.88	.....
Moorestown.....	1.40	-2.02	2.22	-1.07	3.11	-0.57	1.28	-2.13	5.50	+1.72	6.21	+2.44	5.33	+0.79	3.08	-1.83	1.80	-1.95	1.21	-2.20	1.82	-1.42	1.10	-2.33	34.06	-10.57
Morris Plains.....	1.57	.....	2.13	.....	3.32	.....	1.84	.....	9.20	.....	4.85	.....	7.02	.....	5.94	.....	5.59	.....	2.04	.....	1.22	.....	2.16	.....	46.88	.....
Newark.....	1.68	-2.12	1.46	-2.06	3.16	-0.74	1.20	-2.52	7.28	+3.36	5.25	+1.36	5.85	+1.14	5.21	+0.29	4.13	+0.36	1.03	-2.76	1.57	-1.86	2.38	-1.39	40.20	-6.94
New Brunswick.....	1.48	-2.15	1.34	-2.07	3.37	-0.31	1.00	-2.64	5.44	+1.65	5.06	+1.26	7.70													

Monthly and Annual Mean Temperatures for the Year 1946, with Departures from the Normal

STATIONS.	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic City.....	35.5	+3.0	36.2	+2.6	47.3	+8.7	50.6	+2.8	60.3	+2.2	66.4	-0.2	72.5	+0.4	71.9	-0.6	68.6	+1.8	61.2	+4.4	51.8	+6.2	41.7	+5.3	55.3	+3.0
Barnegat City.....	34.0	.....	34.0	.....	46.0	.....	49.8	.....	58.8	.....	62.7	.....	70.5	+1.1	73.2	-0.9	71.6	-0.9	.....	.....	.....	.....	40.4	+5.0	.....	.....
Belleplain.....	35.8	+2.3	35.4	+2.7	49.5	+8.3	50.8	+0.5	62.7	+1.7	70.5	+1.1	73.2	-0.9	71.6	-0.9	68.6	+1.8	61.2	+4.4	51.8	+6.2	41.7	+5.3	55.3	+3.0
Belvidere.....	30.5	+2.6	30.1	+1.7	47.8	+9.1	50.8	+0.3	61.6	+0.5	69.0	-0.6	74.6	+0.8	64.8	-2.6	67.9	+2.6	54.2	+3.4	47.0	+5.5	35.3	+4.3	53.5	+2.4
Boonton.....	29.4	+1.6	28.8	+0.6	45.2	+8.9	48.0	-0.3	57.8	-1.2	64.7	-3.1	71.3	-1.0	66.4	-4.0	65.2	+1.5	56.5	+4.1	46.2	+4.5	33.6	+3.3	51.1	+1.8
Bridgeton.....	34.7	+1.0	36.0	+2.0	50.8	+8.3	52.6	+0.2	63.4	-0.2	70.6	1.6	74.9	-1.6	71.4	-3.1	68.8	+0.4	60.1	+3.1	50.0	+4.4	39.8	+3.8	56.1	+1.4
Burlington.....	36.8	+3.9	37.2	+3.9	51.6	+9.2	54.3	+2.1	66.8	+3.7	72.0	+0.6	76.7	+0.7	71.6	-2.8	72.3	+4.3	61.8	+4.4	51.0	+5.2	38.8	+3.8	57.6	+3.8
Canoe Brook.....	.....	.....	.....	.....	45.5	+8.3	48.0	+0.5	58.7	-0.3	67.0	-0.8	72.6	+0.2	68.4	-2.3	65.8	+1.8	57.6	+5.0	46.4	+4.6	33.6	+3.0	.....	.....
Cape May.....	36.2	+1.4	36.6	+1.8	47.3	+8.5	50.9	+0.9	62.7	+1.7	70.5	+1.1	73.2	-0.9	71.6	-0.9	68.6	+1.8	61.2	+4.4	51.8	+6.2	41.7	+5.3	55.3	+3.0
Charlotteburg.....	30.0	+2.7	29.2	+2.1	45.8	+9.4	48.0	+1.1	58.2	+0.3	65.4	-0.3	69.4	-1.0	66.2	-2.1	64.5	+2.0	54.2	+3.4	47.0	+5.5	35.3	+4.3	53.5	+2.4
Chatsworth.....	34.4	.....	35.2	.....	47.8	.....	50.3	.....	62.2	.....	69.0	.....	73.2	.....	69.5	.....	68.2	.....	59.1	.....	49.2	.....	38.8	.....	54.8	.....
Clayton.....	.....	.....	.....	.....	52.8	+1.6	64.2	+2.2	71.0	+1.0	76.1	+0.9	73.2	-0.9	71.6	-0.9	68.6	+1.8	61.2	+4.4	51.8	+6.2	41.7	+5.3	55.3	+3.0
Elizabeth.....	32.8	+1.9	31.9	+0.6	50.2	+10.6	50.3	-0.8	61.6	-0.3	69.4	+1.2	74.4	-1.0	70.0	-2.8	69.1	+2.1	60.8	+5.5	48.0	+4.0	36.2	+2.5	54.6	+1.8
Flemington, 2 mi. NE.....	33.0	+2.6	32.5	+2.1	49.2	+8.6	52.0	+1.5	62.2	+0.6	72.0	+0.6	75.4	+0.4	70.0	-2.9	68.6	+1.7	59.6	+3.9	48.4	+4.6	36.0	+3.2	54.9	+2.3
Freehold.....	33.4	+1.5	33.4	+1.9	48.5	+8.7	50.0	0.0	61.6	-0.4	68.2	-1.5	73.4	-1.2	69.6	-3.3	68.2	+2.0	59.7	+4.7	49.0	+4.1	37.2	+3.1	54.4	+1.6
Hammonton.....	33.9	+0.6	33.3	-1.1	50.8	+8.0	51.8	+0.5	62.0	-1.4	68.0	-3.8	73.1	-2.7	68.5	-5.6	68.4	+1.1	59.2	+3.0	50.0	+6.8	39.6	+6.0	54.9	+1.0
Hightstown.....	33.1	+2.8	32.9	+1.9	48.0	+7.3	50.2	-0.1	61.2	+0.1	67.6	-1.7	73.4	-0.8	69.0	-3.2	67.4	+0.9	58.6	+3.7	48.2	+4.3	35.9	+2.7	54.8	+1.5
Indian Mills.....	34.0	+1.8	34.8	+2.2	48.9	+7.8	50.6	0.0	62.1	+0.1	67.8	-2.4	73.0	-1.6	69.4	-3.2	67.7	+1.2	58.6	+3.3	48.6	+4.6	37.2	+2.9	54.4	+1.4
Jersey City.....	31.1	-1.2	29.7	-2.0	47.1	+7.0	48.0	-2.5	59.4	-2.4	67.1	-3.8	73.0	-2.9	69.0	-4.9	67.2	-0.5	58.4	+2.0	47.4	+4.4	35.4	+0.7	52.7	-0.7
Lakewood.....	34.4	+2.3	34.2	+2.5	48.2	+7.7	50.3	+0.5	61.6	+0.8	69.2	+0.1	73.6	0.0	70.0	-1.6	68.0	+2.5	58.8	+4.3	48.6	+4.6	37.1	+3.1	54.5	+2.3
Lambertville.....	32.6	+2.3	32.5	+1.8	47.4	+7.9	50.4	+0.3	61.2	0.0	67.4	-2.3	72.5	-1.7	67.9	-4.4	66.8	+0.8	59.2	+4.8	48.5	+5.2	36.1	+2.9	53.6	+1.5
Layton, 3 mi. NW.....	28.0	+2.7	27.4	+1.9	44.2	+8.4	47.0	+0.1	57.2	-0.7	65.4	-0.9	71.2	0.0	66.1	-2.6	64.4	+1.8	56.2	+5.3	44.2	+4.7	32.0	+3.8	50.3	+2.1
Little Falls.....	31.8	+2.6	31.2	+0.9	47.3	+8.3	50.4	+0.7	60.2	-0.4	68.4	-1.0	73.9	-0.2	69.0	-3.1	67.0	+1.5	58.8	+4.6	48.3	+5.1	35.8	+3.3	53.5	+1.9
Long Branch.....	34.0	+2.3	34.8	+1.4	47.7	+8.2	49.2	+0.7	60.2	+1.3	67.9	-0.2	72.8	-0.3	70.0	-1.7	67.8	+1.7	59.6	+4.3	49.3	+4.7	37.8	+3.4	54.1	+2.8
Long Valley.....	30.2	+3.0	29.5	+1.8	45.8	+10.0	47.4	-0.3	58.0	-1.0	65.9	-1.7	71.0	-0.5	66.2	-3.2	64.4	+1.5	56.2	+4.7	44.4	+3.3	33.0	+3.2	51.0	+1.7
Moorestown.....	33.4	+2.3	33.9	+2.1	48.6	+8.6	49.8	-0.7	61.5	+0.1	66.8	-3.5	73.4	-1.4	69.3	-3.3	67.5	+1.2	58.6	+3.7	48.0	+4.8	36.6	+2.8	54.0	+1.4
Morris Plains.....	30.8	.....	29.5	.....	47.4	.....	48.1	.....	60.0	.....	67.2	.....	70.8	.....	67.6	.....	66.1	.....	57.7	.....	46.3	.....	35.4	.....	52.2	.....
Newark.....	32.4	+2.6	31.0	+1.2	48.8	+9.2	50.2	0.0	61.4	0.0	69.4	-0.5	75.0	+0.2	70.8	-1.2	69.2	+2.7	60.0	+4.4	49.2	+5.2	37.0	+3.6	54.5	+2.2
New Brunswick.....	33.2	+2.7	32.6	+1.5	48.6	+9.5	50.4	+0.2	61.0	+0.3	68.8	-0.6	73.7	-0.4	70.8	-2.4	68.2	+2.3	59.0	+4.2	48.9	+5.1	36.9	+3.5	54.2	+2.2
Newton.....	.....	.....	26.8	-0.4	47.0	+10.9	47.7	-0.3	58.8	-0.5	66.2	-1.8	71.3	-1.3	66.1	-4.3	64.7	+0.8	56.2	+3.5	44.8	+3.8	31.8	+1.6	.....	.....
Paterson.....	31.8	+1.8	30.4	-0.2	48.3	+8.9	49.8	-0.8	60.4	-1.2	68.4	-1.7	74.0	-0.6	69.4	-2.9	68.1	+1.8	59.2	+4.2	48.1	+4.8	35.2	+1.9	53.6	+1.3
Pemberton.....	35.6	+2.1	36.0	+2.4	50.2	+8.1	52.2	+0.5	63.4	-0.3	69.6	-2.4	74.3	-1.7	70.6	-3.7	68.3	+0.1	59.2	+3.0	49.5	+3.1	38.0	+2.6	55.6	+1.2
Phillipsburg.....	29.7	+1.1	29.4	+0.4	45.8	+7.3	48.4	-1.1	58.4	-2.8	66.2	-3.3	71.3	-2.6	66.6	-5.1	64.4	-0.8	53.9	+0.4	43.7	+1.7	32.5	+0.9	50.9	-0.3
Plainfield.....	32.3	+2.1	31.4	+1.5	47.8	+8.5	50.5	+0.9	60.0	-0.4	68.2	-0.9	73.8	-0.2	69.2	-2.7	67.6	+1.9	59.1	+5.0	48.2	+5.1	35.6	+2.6	53.6	+1.9
Pleasantville.....	34.6	+1.6	36.0	+2.6	48.2	+7.6	50.6	+1.5	61.6	+2.0	67.6	-1.4	73.1	-0.2	69.4	-2.7	68.0	+1.8	59.3	+4.2	49.8	+4.7	39.1	+4.1	54.8	+2.3
Ridgefield.....	31.2	+2.0	30.3	+0.3	47.6	+8.8	49.0	+0.1	60.2	-0.1	68.1	-0.9	74.0	-0.1	69.6	-2.4	67.4	+2.0	58.4	+4.5	47.4	+4.4	35.0	+3.1	53.2	+1.8
Runyon.....	29.0	-0.7	30.8	+0.2	45.2	+7.9	49.0	+0.6	57.6	-2.3	62.8	-6.1	71.9	-1.2	67.0	-4.7	66.6	+1.9	58.4	+5.5	47.4	+4.6	32.2	+0.8	51.5	+0.4
Rutherford.....	32.0	.....	31.8	.....	48.5	.....	50.0	.....	59.8	.....	68.4	.....	72.9	.....	68.6	.....	66.8	.....	59.4	.....	49.2	.....	36.3	.....	53.6	.....
Sandy Hook.....	33.4	+2.1	32.1	0.0	47.1	+7.8	50.3	+2.0	60.4	+2.0	69.0	+1.2	74.2	+0.7	71.4	-1.1	69.5	+2.0	61.2	+4.3	51.6	+5.8	38.7	+3.5	54.9	+2.5
Somerville.....	.....	.....	31.0	+1.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.3	-4.0	68.6	+2.7	58.6	+4.4	47.5	+4.6	34.4	+2.8	.....	.....
Sussex.....	29.0	+2.0	29.0	+2.0	46.4	+9.4	49.2	+0.6	58.8	-1.0	63.8	-0.9	72.2	-0.2	67.0	-3.1	64.9	+0.6	55.2	+2.4	45.6	+4.1	32.4	+2.4	51.4	+1.6
Trenton.....	33.7	+3.2	33.0	+2.3	49.4	+10.3	51.0	+1.2	62.4	+1.3	68.9	-0.6	75.0	+0.5	70.4	-2.6	69.1	+2.2	60.5	+4.9	49.8	+5.4	37.8	+3.4	55.1	+2.6
Trenton No. 2.....	33.6	+1.7	33.2	+1.5	49.0	+8.7	51.2	+0.6	62.6	-0.2	69.3	-2.0	75.1	-0.4	70.6	-2.9	68.7	+1.9	60.2	+5.3	49.3	+4.5	37.4	+3.5	55.0	+1.8
Tuckerton.....	34.2	+0.3	35.2	+1.8	48.0	+6.6	51.2	+1.5	61.3	+1.1	68.0	-1.2	72.6	-1.7	71.2	-1.5	68.4	+1.5	59.5	+3.0	50.7	+5.0	39.7	+3.6	55.0	+1.7
New York, N. Y.....	34.0	+3.1	34.4	+0.1	49.6	+11.9	49.8	+0.4	61.0	+0.4	68.5	-0.3	74.1	+0.3	70.6	-2.5	69.8	+3.0	61.9	+5.6	50.0	+5.8	38.2	+3.2	54.9	+2.6
Philadelphia, Pa.....	35.2	+2.6	35.4	+1.5	51.5	+10.7	52.8	+0.7	64.0	+1.1	69.8	-1.6	76.2	0.0	72.1	-2.7	71.4	+3.4	62.4	+4.6	51.6	+5.9	39.9	+3.6	56.9	+2.5
For The State.....	32.7	+1.9	32.3	+1.6	47.9	+8.5	50.1	+0.3	60.8	+0.2	69.1	+1.0	73.2	-0.7	69.2	-2.8	67.5	+1.6	59.0	+4.3	48.3	+4.4	36.5	+2.9	53.9	+1.9

KILLING FROSTS

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
Atlantic City.....	Mar. 12	Nov. 23	Long Branch.....	Apr. 11*	Nov. 16
Belleplain.....	Apr. 28*		Long Valley.....	May 9	Nov. 16
Belvidere.....	May 9	Nov. 16	Moorestown.....	Apr. 15*	Nov. 15*
Boonton.....	May 9*	Oct. 22*	Morris Plains.....	May 9	Nov. 16
Bridgeton.....	Apr. 11*	Nov. 14	Newark.....	Apr. 8*	Nov. 16
Burlington.....	Apr. 18*	Nov. 15*	New Brunswick.....	Apr. 11*	Nov. 13*
Canoe Brook.....	May 10*	Oct. 3*	Newton.....	Apr. 28*	Nov. 15
Cape May.....	Mar. 12*	Nov. 16*	Paterson.....	Apr. 18*	Nov. 16
Charlotteburg.....	May 9*	Oct. 3*	Pemberton.....	Apr. 18	Nov. 6
Chatsworth.....	May 9*	Oct. 23*			
Clayton.....	Apr. 11	Nov. 16	Phil ipsisburg.....	May 9	Nov. 16
			Plainfield.....	Apr. 18	Nov. 13
Elizabeth.....	May 9*	Nov. 16	Pleasantville.....	Apr. 18	Oct. 23*
Flemington.....	May 9	Nov. 16	Ridgefield.....	Apr. 18*	Nov. 13*
Frehold.....	Apr. 18	Nov. 13*	Rumyon.....	May 9	Oct. 2*
Hammonon.....	Apr. 28*	Oct. 21*	Rutherford.....	Apr. 8*	Nov. 16
Hightstown.....	Apr. 18	Nov. 13	Sandy Hook.....	Mar. 12*	Nov. 24*
Indian Mills.....	Apr. 18	Nov. 6	Somerville.....		Nov. 6
Jersey City.....	Apr. 11*	Nov. 14*	Sussex.....	May 9	Oct. 3*
Lakewood.....	Apr. 18	Nov. 13	Trenton.....	Apr. 11	Nov. 16
Lambertville.....	Apr. 18*	Nov. 6*	Trenton No 2.....	Apr. 11	Nov. 16
Lavton.....	May 10	Oct. 3*	Tuckerton.....	Apr. 11	Nov. 13*
Little Falls.....	May 9	Nov. 16	For the State.....	May 10	Oct. 2*

51.05

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

THE LIBRARY OF THE

CLIMATOLOGICAL DATA

FEB 23 1947

24 NEW JERSEY SECTION

A. E. WHITE.

TRENTON, N. J.

Vol. LII.

JANUARY 1947

No. 1

GENERAL SUMMARY

January temperature averaged about 6° above normal for the State. It was the warmest January since 1937. Readings of 70° or higher were registered at several stations on the 30th, the highest being 76° at Burlington, which was within 2° of the January record for New Jersey which occurred in 1890. Temperatures were near normal during the first ten days but were much higher thereafter. The last eight days averaged 19° above normal at Trenton. At only two stations, Layton and Newton, did the temperature fall to zero during the month. This was also the fourth successive month averaging decidedly warmer than normal.

Precipitation averaged slightly above normal for the State. It was somewhat greater in the Southern Interior than elsewhere and was well distributed throughout the month in all sections. The main snowfall occurred on the 1st and was accompanied by sleet in most sections. Snowfall for the month, however, was much less than normal. Strong winds were registered on the 21st, 30th, and 31st, reaching gale force at Atlantic City, Long Branch, and Newark, but damage by wind is believed to have been slight. Sunshine was near normal.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 43 stations, was 36.7°, which was 5.9° above normal. The highest temperature was 76° at Burlington on the 30th, and the lowest, -1°, at Layton on the 5th. The highest monthly mean temperature was 41.5° at Cape May, and the lowest, 30.9° at Newton. The temperature departure from the normal for the year 1947, to date, for the State is +5.9°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 60 stations, was 3.71 inches, which was 0.08 inch above normal. The average total snowfall at 30 selected stations was 4.8 inches, which was 2.5 inches below normal. The greatest monthly precipitation was 5.35 inches at Mays Landing, and the least, 2.30 inches at Layton. The greatest amount of precipitation in any 24 consecutive hours was 1.70 inches at Belleplain on the 20th. The average for the Highlands was 3.72 inches; for the Red Sandstone Plain, 3.28 inches; for the Southern Interior, 4.05 inches; and for the Sea Coast, 3.90 inches. The precipitation accumulated departure from the normal for the year 1947, to date, by sections, is: the Highlands, +0.30 inch; Red Sandstone Plain, -0.36 inch, Southern Interior, +0.45 inch; Sea Coast, +0.14 inch.

DATES OF MISCELLANEOUS PHENOMENA

THUNDERSTORMS: 5, 20, 26, 31. HEAVY FOG: 1, 2, 3, 4, 14, 15, 16, 19, 20, 26, 30, 31. SLEET: 1, 2, 5, 30.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind			Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.70	1	29.30	20	16.9	42	w.	21	80	75	52	734
Long Branch.....	30.86	1	29.22	20	14.3	56	w.	21	76	66	70	835
Newark.....	30.88	1	29.21	20	.....	46	ws-w.	21	74	58	68	886
Trenton.....	30.84	1	29.24	20	9.8	32	s.	30	72	61	44	833

* Noon

COMPARATIVE DATA FOR JANUARY

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	30.8	67	0	4.08	.....	.....	.....	.....
1886.....	27.3	60	-10	4.47	.....	.....	.....	.....
1887.....	28.4	67	-6	3.86	.....	10	.....	.....
1888.....	25.4	59	-12	4.77	.....	9	.....	.....
1889.....	36.2	60	8	5.68	.....	9	.....	.....
1890.....	41.3	78	12	2.29	.....	10	.....	.....
1891.....	34.2	59	10	6.57	.....	10	10	10
1892.....	29.9	67	-6	5.13	.....	10	10	9
1893.....	21.6	54	-21	3.04	.....	9	10	10
1894.....	34.2	61	-4	2.34	.....	11	10	8
1895.....	28.1	64	-4	1.66	.....	11	10	10
1896.....	28.6	61	-7	1.66	.....	5	12	10
1897.....	29.0	64	-6	2.80	11.5	9	11	8
1898.....	32.6	64	-10	4.20	9.7	11	9	11
1899.....	30.1	60	-21	4.01	6.0	11	13	8
1900.....	32.4	64	-5	3.85	2.6	10	11	9
1901.....	30.4	63	-6	2.52	5.4	9	11	9
1902.....	28.4	58	-5	3.28	8.6	10	12	9
1903.....	30.4	57	-5	3.90	6.4	10	10	10
1904.....	23.3	58	-34	3.09	15.6	10	13	7
1905.....	27.0	60	-16	4.18	21.3	9	12	9
1906.....	36.5	74	-5	2.85	3.1	11	11	9
1907.....	31.8	71	-19	3.50	10.3	14	8	9
1908.....	31.8	60	-6	3.74	9.9	9	12	11
1909.....	33.2	69	-12	3.18	7.5	12	8	9
1910.....	29.7	54	-15	3.04	13.3	15	8	8
1911.....	33.5	63	0	3.44	3.6	14	10	7
1912.....	22.3	58	-32	2.82	13.4	13	8	12
1913.....	39.5	68	-10	3.58	0.8	14	11	7
1914.....	31.9	73	-12	3.85	2.4	12	9	8
1915.....	33.5	61	-3	6.55	3.4	12	11	6
1916.....	35.1	74	-2	1.50	1.9	11	11	8
1917.....	31.4	58	-6	3.26	5.4	13	10	8
1918.....	20.3	56	-16	4.14	18.9	11	12	8
1919.....	34.1	62	-7	3.51	1.3	8	14	7
1920.....	23.6	53	-10	2.60	6.6	11	11	7
1921.....	33.0	63	-5	2.63	2.7	9	13	8
1922.....	27.6	57	-11	2.62	11.1	8	15	6
1923.....	30.1	66	-14	5.22	16.6	12	9	7
1924.....	32.2	65	-6	4.48	1.4	8	15	8
1925.....	27.4	59	-20	4.43	22.8	10	12	6
1926.....	30.8	63	-9	2.61	2.4	9	11	8
1927.....	29.2	70	-12	2.22	7.9	11	11	7
1928.....	32.5	65	-15	2.26	8.3	8	15	8
1929.....	30.7	67	-4	3.49	1.6	10	13	7
1930.....	31.7	72	-14	2.92	5.9	10	10	6
1931.....	31.6	61	-5	2.16	1.6	5	16	7
1932.....	42.4	76	18	4.50	1.5	13	8	6
1933.....	38.5	67	2	2.39	1.2	8	13	7
1934.....	33.6	61	-1	2.59	0.2	8	11	8
1935.....	28.2	65	-26	4.00	15.8	11	13	5
1936.....	27.2	59	-15	6.34	9.1	13	13	7
1937.....	40.3	72	9	6.30	2.2	16	6	6
1938.....	31.0	68	-19	3.64	4.0	12	10	7
1939.....	30.9	65	-10	3.98	10.2	11	11	6
1940.....	22.4	62	-13	1.95	5.6	7	16	6
1941.....	29.4	58	-7	3.47	8.8	10	12	6
1942.....	28.9	66	-23	2.98	5.5	7	13	7
1943.....	30.3	63	-2	2.97	7.3	10	10	8
1944.....	32.5	69	-10	3.50	4.3	7	11	9
1945.....	24.4	60	-10	3.04	13.0	9	13	7
1946.....	32.7	68	-5	1.76	2.3	8	10	8
1947.....	36.7	76	-1	3.71	4.8	12	12	6
Period.....	30.8	78	-34	3.63	7.3	10	11	8

Climatological Data for January 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches					No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City.....	Atlantic.....	74	41.2	+8.7	62	25	13	22	4.30	+0.81	0.97	1-2	2.9	14	11	4	16	w.	U. S. Weather Bureau.	
Belleplain.....	Cape May.....	49	53	41.4	+7.9	70	30	7	23	4.95	+1.42	1.70	20	3.0	14	10	6	15	sw.	Mrs. Edward C. Hoffmann.
Belmar.....	Monmouth.....	19	6	.....	.....	.....	.....	.....	.....	4.38	.....	1.50	20	.....	13	13	10	8	sw.	City Water Dept.
Belydiere.....	Warren.....	289	55	34.1	+6.2	63	30†	9	7	4.26	+0.59	1.12	20	6.5	12	15	4	12	.....	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	6	.....	.....	.....	.....	.....	.....	3.89	.....	0.79	19-20	3.6	13	17	2	12	w.	Samuel H. McCulley.
Boonton.....	Morris.....	280	57§	32.5	+4.7	64	30	10	5	2.36	-0.97	1.00	20	.....	11	13	5	13	nw.	J. C. Water Works.
Bridgeton.....	Cumberland.....	30	64	39.9	+6.2	67	30	11	22	4.85	+1.33	0.85	20	5.2	13	14	5	12	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	39	6	.....	.....	.....	.....	.....	.....	3.21	.....	0.93	20	.....	9	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	61§	39.0	+6.1	76	30	12	22	2.83	-0.60	0.83	20	.....	10	17	5	9	w.	Public Service E. & G. Co.
Burlington.....	Essex.....	180	17	33.2	+5.0	64	30	6	7	3.73	+0.03	1.04	1-2	.....	12	15	4	12	w.	N. J. Dept. of Conservation.
Canoe Brook††.....	Cape May.....	17	59	41.5	+6.7	63	28	22	22	3.75	+0.35	0.96	2	.....	10	11	11	9	s.	Richard F. Umfrid, Jr.
Cape May.....	Passaic.....	760	55	33.2	+5.9	62	31	2	7	3.43	-0.22	1.12	20	7.8	11	.....	.....	.....	w.	Newark Water Dept.
Charlotteburg††.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chatham.....	Morris.....	185	43	.....	.....	.....	.....	.....	.....	3.45	-0.55	0.86	20	.....	12	16	3	12	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	7	40.6	.....	72	30	10	22†	5.00	.....	1.02	19-20	4.5	10	10	9	12	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	34	39.5	+7.6	69	30	11	22	4.18	+0.76	0.75	20	2.5	14	14	4	13	sw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	4	.....	.....	.....	.....	.....	.....	3.12	.....	1.05	20	4.1	12	15	3	13	sw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	46	.....	.....	.....	.....	.....	.....	3.75	+0.64	1.10	20	7.0	8	.....	.....	.....	.....	L. S. Depue.
Elizabeth.....	Union.....	33	68	36.8	+5.9	65	31	12	23	4.93	+1.50	1.80	20	6.0	14	12	6	13	w.	Union County Park Comm.
Flemington, 2 mi. NE.....	Hunterdon.....	134	61§	36.3	+5.9	65	30	10	7†	3.55	-0.03	1.12	20	2.5	13	15	5	11	ne.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	43§	38.2	+6.3	70	30	9	22	3.77	-0.19	1.07	1-2	3.5	13	.....	.....	.....	w.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	41§	40.8	+7.5	71	30	10	22	4.22	+0.40	1.18	20	3.0	10	12	3	16	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	100	54	36.8	+6.5	71	30	10	22	3.48	+0.07	0.89	20	3.5	13	10	9	12	sw.	James R. Pickering.
Indian Mills††, 2 mi. W.....	Burlington.....	100	58	39.2	+7.0	71	30	9	23	4.29	+0.42	0.89	1-2	4.1	14	12	7	12	w.	Edward Entwistle.
Jersey City.....	Hudson.....	135	49	34.8	+2.5	57	20†	12	22	3.32	-0.22	1.17	20	.....	9	11	6	14	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	43	38.8	+6.7	69	30	11	22†	4.01	+0.16	0.96	20	5.5	12	7	12	12	sw.	R. W. Hoffman.
Lambertville.....	Hunterdon.....	75	60	36.8	+6.5	68	30	10	10	3.53	+0.04	0.99	20	3.5	11	14	6	11	w.	George Bailey.
Layton††, 3 miles NW.....	Sussex.....	480	46	31.9	+6.6	63	31	1	5	2.30	-0.64	0.85	30-31	7.7	9	7	6	18	sw.	A. M. Depue.
Little Falls.....	Passaic.....	157	44	35.2	+6.0	65	30	11	22	2.90	-0.81	0.96	20	5.5	11	12	8	11	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	39	37.8	+6.1	64	31	11	22	3.97	-0.15	1.12	20	5.8	13	9	8	14	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	17	32.6	+5.4	62	28	4	7	3.99	+0.69	1.12	20	5.0	10	14	8	9	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	6	.....	.....	.....	.....	.....	.....	3.92	.....	0.84	20	4.2	12	15	5	11	sw.	David Griscom.
Mays Landing.....	Atlantic.....	50	3	.....	.....	.....	.....	.....	.....	5.55	.....	1.13	19-20	4.0	14	14	4	13	sw.	Elmer Earle.
Millville.....	Cumberland.....	60	7	.....	.....	.....	.....	.....	.....	4.75	.....	1.03	20	4.0	13	14	2	15	.....	Millville Mfg. Co.
Moorestown.....	Burlington.....	62	84	37.6	+6.5	70	30	12	22	3.38	-0.64	0.80	19-20	2.9	13	.....	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	6	34.6	.....	63	31	8	7	3.38	.....	1.13	19-20	4.5	10	11	4	16	.....	James C. Long.
Newark.....	Essex.....	11	93	36.4	+6.6	64	30	12	22	3.32	-0.48	1.21	20	5.9	13	7	5	19	ue.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	99	93	37.4	+6.9	67	30	10	22	2.89	-0.74	0.84	20	4.4	11	11	4	16	sw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	29	.....	.....	.....	.....	.....	.....	2.39	-1.06	0.70	20	.....	13	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	64	30.9	+4.4	62	30	0	7	3.35	+0.03	0.86	30-31	7.5	9	10	9	12	sw.	Charles M. Wheeler.
Orange††.....	Essex.....	140	7	.....	.....	.....	.....	.....	.....	3.35	.....	0.97	20	.....	12	.....	.....	.....	.....	County Engineer.
Pateron.....	Passaic.....	100	76	35.6	+5.6	63	28	10	22	2.74	-0.99	0.89	20	5.0	12	7	12	12	w.	J. W. Cook.
Pemberton.....	Burlington.....	60	18	39.0	+5.5	72	30	11	22	3.76	+0.32	0.86	20	3.0	12	15	5	11	nw.	Charles A. Doehlert.
Phillipsburg.....	Warren.....	182	64§	31.0	+2.4	62	30	9	7†	3.66	+0.13	1.21	20	5.5	14	13	6	12	.....	Town Engineer.
Plainfield.....	Union.....	120	59	35.8	+5.6	65	31	11	22	3.52	-0.32	0.92	20	6.4	11	8	11	12	sw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	6	.....	.....	.....	.....	.....	.....	3.56	.....	1.02	1-2	3.9	9	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	49	40.4	+7.4	61	28	10	23	4.42	+1.06	1.12	19-20	2.9	12	15	3	13	w.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	8	.....	.....	.....	.....	.....	.....	3.20	.....	1.03	20	7.0	13	11	7	13	ne.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	30	35.6	+6.4	62	28	12	22	2.98	-0.55	0.94	20	6.5	10	8	7	16	nw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	24	34.6	+4.9	64	30	6	7	3.42	-0.18	0.88	20	5.2	9	15	6	10	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	3	36.4	.....	63	28†	11	22	3.33	.....	1.08	20	6.7	14	5	7	19	nw.	Harold Scott.
Sandy Hook.....	Monmouth.....	22	49	37.7	+6.4	57	20	11	22	3.08	-0.88	0.89	1-2	5.2	11	5	15	11	nw.	U. S. Coast Guard.
Somerville.....	Somerset.....	65	64	35.8	+6.5	64	31	9	7	3.36	-0.23	0.96	20	4.3	12	12	5	14	sw.	William E. Haver.
Sussex.....	Sussex.....	450	52	31.8	+4.8	63	31	0	7	5.15	+1.87	1.20	20	8.0	9	8	5	18	n.	Marshall Hunt.
Tom's River.....	Ocean.....	33	26	.....	.....	.....	.....	.....	.....	4.35	+0.64	1.14	20	3.1	12	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	75	38.1	+7.6	70	30	12	22	3.04	-0.27	0.76	20	2.6	13	5	11	15	w.	U. S. Weather Bureau.
Trenton No. 2.....	.....do.....	105	17	37.6	+5.7	69	30	11	22	3.53	-0.30	0.89	20	2.2	13	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	54	40.2	+6.3	62	25†	11	22	4.47	+0.88	1.22	1-2	2.0	11	17	1	13	n.	John H. Brown.
Vineland.....	Cumberland.....	110	67	.....	.....	.....	.....	.....	.....	4.91	+1.04	1.10	19-20	.....	11	14	5	12	sw.	Robert Jones.
Westfield.....	Union.....	135	8	.....	.....	.....	.....	.....	.....	3.50	.....	0.93	20	6.0	12	14	4	13	w.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	29	.....	.....	.....	.....	.....	.....	2.72	-0.82	0.86	20	.....	13	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	.....	10	77	37.1	+6.2	61	20	11	22	3.20	-0.46	0.95	20	5.3	12	7	7	17	sw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	26	77	39.8	+7.2	70	30	12	22	3.81	+0.51	0.95	20	1.3	12	9	7	15	sw.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	36.7	+5.9	76	30	-1	5	3.71	+0.08	1.70	20	4.8	12	12	6	13	sw.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T. Precipitation less than 0.01 inch rain or melted snow.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents 2 days, etc.

† On other dates also. § Length of precipitation record; temperature record is much shorter. * Estimated.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for January 1947

Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic City ^{1†}	Coast	.93	.12	.21		.30	.01						.01	.18	.69	.32	.02		T.	T.	.93						.46	.01				.11	4.30		
Bass River	do																																		
Belleplain	Tuckahoe	.15	.68	.35		.45	.14	.09					.05		.61	.30	.21	.07			1.70	.08					.07						4.95		
Belmar ²	Coast	.90	.14	.09		.27	T.	.08	T.	.01			T.	.03	.58	.31	.08				1.50						.25	T.			T.	.14	4.38		
Belvidere	Delaware	.10	.62	.07		.31	T.								.40	.34	.06				1.12	T.						.03	.30			T.	.85	4.26	
Berlin	Mullica	.60	.10	.03		.22		.06	T.						.58	.10	.44	.10			.69	.10					.62				T.	.25	3.89		
Boonton ³	Passaic		.47	.02	.03		.11			T.					.09		.09	.02			.80	.20						.30					.23	2.36	
Bridgeton	Delaware	.64	.32	.28		.11	.50	.18							.72	.51		.06			.85							.56	.01				.08	4.85	
Brooklawn	do	.53	T.	.11			.13	.09							.49	.14	.13				.93							.66					.21	3.21	
Burlington	do	.10	.10	.02			.35		.05						.36	.02	.35	T.			.83	T.							.65	T.			.08	4.85	
Canoe Brook ³	Passaic		1.04	.05	.04		.20				T.				.29	.10	.27	.05			.90	.14							.40				.25	3.73	
Canton	Delaware	.03	.14	.15	.04		.32	.59	T.						.82	.02	.47	.05			.70	.13						.68			T.	.11	4.25		
Cape May ¹	Coast	.35	.96	T.		.10	.50								.70	.05	.23				.67							.10					.09	3.75	
Charlotteburg	Passaic	.20	.36	.05			.18			T.	T.				.24	.29	.10				1.10	.02						.32					.57	3.43	
Chatham ³	do		.46	.04	.07		.23								.27	.10	.32	.08			.86	.30						.44					.28	3.45	
Chatsworth	Coast	*	.90	.32			.43	.66							T.	.55		.45			1.02							.58					.09	5.00	
Clayton	Delaware	.18	.66	.18		.02	.41	.05							.61	.52	.05	.03			.75							.52	.04				.16	4.18	
Clinton	Raritan	.15	.38	.04			.23	.05				.02			.33	.35	.11				1.05							.24	.08				.14	3.12	
Culvers Lake	do		.53				.29								.25	.30	.02				1.10							.27			T.		.99	3.75	
Elizabeth	Coast	.25	1.22	.04			.25		.02	T.					.42	.38	.13	.03			1.30	.06						.09	.56				.18	4.93	
Essex Fells ³	Passaic		.48	.30			.25			T.					.90	.24	.29	.40			.80	.15							.36					4.17	
Flemington	Raritan	.10	.32				.24			T.		.02			.27	.31	.18	.02			1.12	.04						.03	.55				.35	3.55	
Frehold	do	*	1.07	.10			.16	.02		.02					.52	.35	.13	.03			.86								.40				.11	3.77	
Hammonton	Mullica	.11	.08	.16			.20	.55							*	*	1.22	T.			1.18	T.							.72				4.22		
Hightstown	Raritan	.30	.57	.13			.16			T.	.02		T.		.32	.32	.11	.03			.89	.01						T.	.56				.06	3.48	
Indian Mills	Mullica	*	.89	.15		.02	.36	.09							.68	.46	.02	.03			.83							.15	.41				.20	4.29	
Jersey City ²	Coast	.54				.40	.02								.40	.12					1.17							.52	.02				.13	3.32	
Lakewood	Metedeconk	.40	.54	.12			.30	.10							.60	.34	.06	.04			.96							T.	.40				.15	4.01	
Lambertville	Delaware	.19	.52	.06			.21			T.	T.				.27	.36	.10				.99	T.							.16	.39			T.	.34	3.59
Layton	do	.11	.39	.02			.33								.13	.17					.18							.12					.85	2.30	
Little Falls ³	Passaic		.54		.04		.17			T.	T.				.18	.13	.28	.01			.85	.11							.32				.27	2.90	
Long Branch ^{2†}	Coast	.92	.15	.10		.22	.05	.05	T.	T.				.01	.60	.29	.10				1.12	T.						.23			T.	.13	3.97		
Long Valley ³	Raritan		.20	T.	.60		.30								.23	.18	.56	T.			*	1.12							.38				.32	3.89	
Manville	do	.55	T.	.15		.25									.10	.24	.08				.38	T.				.20			T.				.15	2.20	
Marlton	Delaware	.20	.50	.12			.17	.10							.68	.12	.28				.84								.20	.47			.24	3.92	
Mays Landing	Gt. Egg Harbor	.40	.59	.35		.45	.04	.02							.67	.58	.02	.06			1.13							.08	.63				.33	5.35	
Midland Park	Passaic	.47	.16	.03		.20				T.					.30	.33	.01				.97	.02						.24					.12	2.85	
Millville ^{2†}	Maurice	.92	.04	.28		.20	.16	.06							.64	.37	.04				1.03								.53					.32	4.75
Moorestown ³	Delaware		.61	.05	.03		.19		.03	T.	T.		T.		.48	.06	.26	.05			.72	.08							.68				.14	3.38	
Morris Plains	Passaic	.11	.47	.04			.16			T.	T.		T.		.32	.25	.12				1.13	T.						T.	.51				.27	3.38	
Newark ¹	Coast	.49	.05	.03		.17	T.	.01	T.	.03	T.		T.		.37	.32	.08				1.21	.01						.39	T.				.16	3.32	
New Brunswick	Raritan	.15	.51	.06		.12				T.					.24	.35	.09	.02			.84	T.						T.	.42				.09	2.89	
New Milford ^{2†}	Hackensack	.14	.04	.06		.15			.03						.22	.34	.01				.70								.12	.02		.09	.17	2.39	
Newton ³	Delaware		.48	T.			.22			T.					.20	.10	.24				.56	.34							.35				.86	3.35	
Orange ^{2†}	Passaic	.19	.50	.05			.25								.29	.26	.14	.04			.97	.06							.39				.21	3.35	
Pater-on ²	do	.45	.05	.06		.19	T.			T.					.15	.35	.02				.89	.01						.30	T.				.11	.16	2.74
Pemberton	Delaware	.17	.46	.14			.25	.10							.50	.25	.09	.05			.86							T.	.56				.33	3.76	
Phillipsburg	do	.56	.15	.07		.20	T.		T.	.04					.34	.08	T.				1.21	T.				.04	.33	.09				.03	.40	3.66	
Plainfield	Raritan	.50	.21	.05			.23	T.		T.					.32	.42	.13				.92	.03							.46				.25	3.52	
Plainsboro	do		1.02				.33		.12						.10	.50	.08				.75								.55				.11	3.56	
Pleasantville ³	Coast	.57	.07	.07	.23		.37		T.						.83	.03	.32	T.			.59	.53							.56				.25	4.42	
Rahway ^{2†}	Rahway	.55	*	.13			.15								*	*	.80				1.03							*	.41		*		.13	3.20	
Ridgefield	Hackensack	.32	.31	T.			.26	T.		T.					.23	.33	.10				.94	T.							.08	.22			.19	2.98	
Ringwood ³	Passaic		.53	.02			.13			T.	.01	T.			.24	.09	.22				.82	.12													

Daily Temperatures for January 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*	Maximum...	44	46	54	47	42	36	41	44	38	37	49	51	42	47	48	54	47	49	44	56	51	23	42	62	49	54	57	50	61	47.5		
	Minimum...	27	37	43	32	30	30	30	38	29	26	37	31	28	41	41	42	36	37	36	43	17	13	18	40	44	42	44	42	47	39	35.0	
Belleplaine	Maximum...	34	45	53	55	54	40	42	45	43	36	63	52	46	50	58	50	53	56	44	60	58	39	39	58	61	59	61	63	65	70	52.2	
	Minimum...	24	31	38	36	23	25	13	36	27	21	26	40	26	37	38	36	32	32	26	40	38	11	7	25	40	35	31	28	31	50	42	30.6
Belvidere	Maximum...	30	31	39	37	39	36	41	43	36	35	45	43	33	34	36	40	41	45	37	49	45	24	34	51	54	47	55	56	51	63	63	42.4
	Minimum...	20	21	30	25	14	24	9	32	20	15	25	32	16	24	33	33	29	29	25	32	23	10	13	31	37	30	34	29	33	31	40	25.8
Boonton/	Maximum...	29	37	38	34	37	35	39	39	30	32	47	43	33	37	39	44	41	45	38	55	41	21	34	54	54	49	59	59	50	64	52	42.2
	Minimum...	11	20	27	25	10	22	11	18	21	12	18	20	15	17	81	35	30	29	25	25	28	11	11	11	32	26	34	31	33	31	40	22.8
Bridgeton	Maximum...	26	38	53	49	40	36	39	42	42	35	53	50	43	46	48	56	50	49	44	61	52	32	36	57	60	54	55	60	62	67	61	48.3
	Minimum...	34	31	35	31	25	26	19	34	26	20	26	36	25	39	39	39	31	33	29	39	32	11	13	30	36	33	40	33	36	46	49	31.5
Burlington	Maximum...	31	33	39	36	38	37	36	41	40	35	52	49	44	40	42	44	43	49	43	63	60	58	34	57	59	55	58	59	62	76	66	47.7
	Minimum...	17	26	31	28	24	27	20	35	25	26	32	25	23	33	34	35	34	35	30	35	36	12	21	33	42	37	42	30	40	35	40	30.4
Cancoe Brook /	Maximum...	30	36	40	37	39	38	40	40	32	34	50	47	35	36	38	43	43	48	41	58	40	23	35	57	59	48	60	62	50	64	56	43.8
	Minimum...	17	21	29	23	7	22	6	20	20	12	20	34	14	21	32	32	29	30	25	19	36	9	10	17	30	21	32	22	28	26	34	22.5
Cape May	Maximum...	39	47	53	50	42	42	44	44	34	36	51	51	45	55	52	49	51	44	45	57	56	41	39	54	55	54	48	63	56	56	59	48.8
	Minimum...	24	36	40	37	33	32	24	38	23	29	32	29	43	32	32	32	36	30	43	23	22	23	35	41	38	39	36	38	46	46	34.2	
Charlotteburg	Maximum...	27	31	47	38	31	35	35	38	35	31	48	40	38	33	40	43	45	44	36	53	53	34	29	51	53	46	56	60	56	48	62	42.5
	Minimum...	20	16	29	20	7	25	2	30	20	6	29	35	12	24	32	33	26	31	29	30	5	9	24	40	19	39	26	32	28	40	23.9	
Chatsworth	Maximum...	34	40	55	54	39	37	39	43	40	35	61	52	47	45	48	52	51	50	49	62	60	37	38	65	59	57	58	63	68	72	65	50.8
	Minimum...	28	30	35	32	21	26	13	34	24	30	27	10	22	37	39	37	30	33	33	36	37	10	10	27	40	26	40	29	28	40	48	30.4
Clayton	Maximum...	32	36	52	46	40	37	38	42	41	35	53	50	39	43	48	49	50	50	50	52	55	33	37	57	59	54	55	60	62	69	63	48.0
	Minimum...	27	28	33	30	24	23	18	33	25	22	28	35	24	36	38	39	34	35	27	37	32	11	12	29	31	33	40	36	37	47	46	31.0
Elizabeth	Maximum...	30	33	39	55	38	39	36	43	37	35	50	50	39	37	42	44	45	45	41	63	61	35	34	58	61	51	60	60	57	55	46	46.4
	Minimum...	22	22	30	25	14	22	14	32	20	26	24	36	20	31	33	34	29	30	24	32	32	19	12	32	28	36	30	36	34	43	27.3	
Flemington	Maximum...	30	33	39	38	39	39	36	41	37	36	50	46	38	34	39	43	44	46	41	58	56	38	38	57	60	52	60	62	52	65	64	45.5
	Minimum...	23	21	32	25	18	25	10	33	22	16	28	36	19	29	34	34	32	30	23	32	34	10	13	24	34	29	37	30	34	31	43	27.1
Freehold	Maximum...	39	34	42	40	37	36	36	41	37	35	47	35	39	45	46	48	49	49	62	57	54	35	56	59	55	58	61	51	70	64	46.8	
	Minimum...	24	29	33	28	23	23	19	36	22	15	25	35	23	34	37	36	36	26	30	36	10	16	30	44	38	49	41	36	43	40	31.8	
Hammonton	Maximum...	32	43	56	45	39	35	36	46	37	31	56	58	43	48	47	55	52	53	40	61	41	38	41	62	60	58	59	61	65	71	68	49.7
	Minimum...	25	36	25	36	26	27	22	35	24	26	27	38	23	34	33	38	36	36	26	30	36	10	16	30	44	38	49	41	36	43	40	31.8
Hightstown	Maximum...	28	33	39	37	37	36	35	40	38	34	52	48	38	39	42	45	46	48	40	62	58	34	36	56	59	54	57	59	55	71	64	45.8
	Minimum...	23	23	31	27	20	23	15	32	21	13	27	37	20	31	35	34	31	33	23	33	33	10	14	27	37	28	39	34	32	32	45	27.8
Indian Mills	Maximum...	32	40	53	48	40	36	37	42	40	35	56	50	37	44	50	50	51	41	63	57	35	37	59	60	55	57	62	65	71	65	48.9	
	Minimum...	28	29	34	29	21	25	13	34	25	19	27	37	21	37	37	37	31	34	22	35	35	10	9	28	39	27	40	30	40	41	46	29.4
Jersey City*	Maximum...	27	33	38	33	35	34	35	39	33	29	46	42	32	36	39	43	38	47	34	57	49	20	32	58	55	48	54	57	45	55	54	41.0
	Minimum...	21	21	33	24	23	26	26	33	22	20	29	29	17	30	35	37	30	33	28	34	16	12	13	31	10	37	39	40	37	36	36	28.6
Lakewood	Maximum...	32	41	49	44	39	38	36	41	39	35	55	49	39	43	45	48	50	49	39	61	59	36	35	57	59	52	55	60	54	69	63	47.5
	Minimum...	28	30	35	31	23	27	13	34	24	12	28	37	25	39	37	39	33	35	24	38	36	11	11	28	42	26	42	31	31	34	48	30.1
Lambertville	Maximum...	30	33	40	39	38	37	37	41	38	34	54	49	32	37	40	45	45	48	41	59	53	32	39	58	60	53	58	61	56	68	66	45.8
	Minimum...	24	23	33	29	18	27	13	35	25	10	30	31	20	31	35	35	32	33	23	35	32	12	14	28	35	27	35	29	33	41	44	27.8
Layton	Maximum...	29	32	39	35	38	38	34	40	35	32	47	47	34	32	35	41	43	43	38	48	46	25	29	49	53	43	59	60	45	42	63	41.1
	Minimum...	17	16	30	21	1	23	1	32	14	7	18	34	7	22	32	32	25	27	22	30	25	9	10	24	36	29	30	35	25	34	37	22.7
Little Falls/	Maximum...	30	38	40	44	38	40	40	42	36	50	47	35	38	40	45	43	48	42	59	39	23	39	56	57	50	60	63	50	65	56	44.5	
	Minimum...	18	20	30	25	12	26	12	25	21	19	27	35	17	21	32	33	32	26	31	35	11	14	19	35	55	50	37	31	33	33	25.9	
Long Branch*	Maximum...	39	42	44	36	37	35	37	40	32	34	56	49	40	41	44	50	42	49	40	60	51	22	37	60	60	51	57	61	46	61	64	45.7
	Minimum...	26	32	34	25	24	23	22	35	21	19	31	30	28	37	38	38	33	29	42	16	11	14	36	33	33	38	38	38	37	37	30.0	
Loug Valley /	Maximum...	30	34	39	37	36	37	38	39	32	32	42	44	32	35	38	42	40	44	10	52	38	21	33	52	57	50	58	62	52	61	34	41.5
	Minimum...	20	19	30	23	10	22	4	29	19	11	20	32	14	18	31	33	29	29	20	30	35	6	10	25	34	24	34	26	28	30	23.7	
Moorestown*	Maximum...	32	33	42	39	37	34	39	42	38	34	54	48	39	39	43	47	43	49	40	62	52	22	34	57	58	53	56	60	62	70	64	45.9
	Minimum...	26	28	32	28	25	21	20	38	26	25	32	28	23	36																		

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

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CLIMATOLOGICAL DATA

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24 NEW JERSEY SECTION

A. E. WHITE.

TRENTON, N. J.

VOL. LII.

FEBRUARY 1947

No. 2

GENERAL SUMMARY

The month averaged the coldest of any February since 1936 but lower temperatures have been recorded in every February since 1940. Monthly minima this month occurred generally on the 5th when four stations recorded zero and one station, Long Valley, reported -1° . The highest readings for the month were registered at most stations on the fourth immediately preceding a cold wave which caused a fall of near 50° in about 15 hours. It was below freezing every day of the month except in the extreme south portion of the State.

Precipitation, like temperature, was below normal at all stations, and was mostly in the form of snow. A moderately heavy snowfall occurred on the 7-8th, and on the 20th-21st, there was the heaviest snowfall in any single storm since January, 1935. Also the monthly totals of snow were the greatest for any month since February, 1934. Strong winds caused considerable drifting during both the principal storms. Precipitation as a whole, however, was the least for any February since 1917. There were only five days, on the average, with measurable amounts. There were more clear days and more sunshine than usual for February.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 43 stations, was 28.2° , which was 2.5° below normal. The highest temperature was 57° at Tuckerton on the 1st, and the lowest, -1° , at Long Valley on the 5th. The highest monthly mean temperature was 32.2° at Cape May, and the lowest, 24.4° at Newton. The temperature departure from the normal for the year 1947, to date, for the State is $+1.7^{\circ}$.

PRECIPITATION

The average precipitation of the State, as computed from observations of 58 stations, was 1.97 inches, which was 1.50 inches below normal. The average total snowfall at 30 selected stations was 18.8 inches, which was 10.0 inches above normal. The greatest monthly precipitation was 3.30 inches at Long Branch, and the least, 1.08 inches at Boonton. The greatest amount of precipitation in any 24 consecutive hours was 1.62 inches at Ridgely on the 20-21st. The average for the Highlands was 1.75 inches; for the Red Sandstone Plain, 1.87 inches; for the Southern Interior, 1.85 inches; and for the Sea Coast, 2.35 inches. The precipitation accumulated departure from the normal for the year 1947, to date, by sections, is: the Highlands, -1.15 inches; Red Sandstone Plain, -1.91 inches; Southern Interior, -1.11 inches; Sea Coast, -1.04 inches.

DATES OF MISCELLANEOUS PHENOMENA.

THUNDERSTORMS: 8.

HEAVY FOG: 15.

SLEET: 4, 5, 20, 21.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.50	12	29.26	4	19.4	54	ne.	21	72	55	61	77	948
Long Branch.....	30.41	12	29.24	4	16.5	45	ne.	21	61	56*	58	62	1020
Newark.....	30.43	13	29.21	4	.....	50	ws.w.	10	65	52	59	.....	1033
Trenton.....	30.28	12	29.06	4	12.1	29	n.w.	10	67	55*	.....	59	1017

* Noon

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	23.9	54	-2	3.93	.....	.....	.....	.....	.....
1886.....	28.9	64	-10	5.42	.....	.....	.....	.....	.....
1887.....	33.9	69	6	5.24	.....	13	.....	.....	.....
1888.....	30.6	60	-5	3.53	.....	.....	.....	.....	.....
1889.....	27.7	53	-3	2.49	.....	8	.....	.....	.....
1890.....	39.9	76	14	4.17	.....	10	.....	.....	.....
1891.....	38.0	71	1	5.11	.....	14	.....	.....	.....
1892.....	33.6	58	7	1.63	.....	7	.....	.....	.....
1893.....	30.1	63	-1	5.73	.....	11	.....	.....	.....
1894.....	29.7	62	-11	4.42	.....	11	.....	.....	.....
1895.....	23.6	57	-12	1.28	11.6	5	13	.....	.....
1896.....	32.1	62	-12	6.77	6.7	12	.....	.....	.....
1897.....	32.5	59	-6	3.61	8.0	8	.....	.....	.....
1898.....	32.7	65	-15	3.48	2.0	9	12	.....	.....
1899.....	25.8	60	-17	6.06	31.3	15	10	.....	.....
1900.....	31.0	69	-6	5.30	9.6	10	.....	.....	.....
1901.....	25.4	52	-6	0.94	4.9	4	15	.....	.....
1902.....	27.4	62	-7	6.24	16.5	9	12	.....	.....
1903.....	33.7	70	-16	4.87	6.7	10	12	.....	.....
1904.....	24.8	65	-16	2.45	5.6	8	13	.....	.....
1905.....	23.4	53	-18	2.53	7.3	7	14	.....	.....
1906.....	30.9	64	-12	2.58	5.4	7	14	.....	.....
1907.....	23.6	55	-22	2.67	20.8	8	14	.....	.....
1908.....	28.1	65	-17	4.79	11.9	9	10	.....	.....
1909.....	37.8	72	-2	4.96	2.3	12	6	.....	.....
1910.....	30.5	69	-11	3.08	6.2	10	10	.....	.....
1911.....	30.9	67	-12	2.78	11.2	11	8	.....	.....
1912.....	27.7	61	-14	2.49	2.8	5	11	.....	.....
1913.....	30.6	70	-5	2.49	3.5	7	16	.....	.....
1914.....	25.9	67	-12	2.85	15.1	9	12	.....	.....
1915.....	35.7	75	-7	5.37	3.5	8	11	.....	.....
1916.....	28.1	63	-18	4.21	11.4	11	10	.....	.....
1917.....	28.1	62	-19	1.95	8.3	11	10	.....	.....
1918.....	29.0	67	-23	2.08	2.6	7	12	.....	.....
1919.....	53.6	65	4	3.39	1.2	10	15	.....	.....
1920.....	27.9	54	-17	4.20	20.0	11	11	.....	.....
1921.....	34.0	71	-5	3.81	13.6	10	10	.....	.....
1922.....	33.6	73	-10	2.94	8.5	10	10	.....	.....
1923.....	26.1	56	-12	2.58	13.8	12	10	.....	.....
1924.....	28.9	62	-3	4.10	11.9	9	13	.....	.....
1925.....	37.3	72	-1	2.23	0.7	7	12	.....	.....
1926.....	29.4	57	-11	4.54	21.2	11	9	.....	.....
1927.....	36.1	66	4	3.12	5.1	11	10	.....	.....
1928.....	32.1	63	-6	4.05	4.4	10	12	.....	.....
1929.....	31.6	63	-9	4.06	9.2	8	13	.....	.....
1930.....	35.6	80	-10	2.80	4.2	9	13	.....	.....
1931.....	33.3	62	-9	2.18	3.0	8	14	.....	.....
1932.....	35.9	69	4	2.16	2.2	9	11	.....	.....
1933.....	38.5	67	-12	3.33	10.4	10	12	.....	.....
1934.....	18.6	54	-26	2.77	22.7	8	15	.....	.....
1935.....	30.1	64	-31	2.80	6.8	9	12	.....	.....
1936.....	24.4	66	-17	3.10	9.6	10	13	.....	.....
1937.....	34.0	65	4	2.30	3.8	8	11	.....	.....
1938.....	35.5	70	6	2.31	1.1	10	9	.....	.....
1939.....	36.3	74	1	5.55	2.0	11	11	.....	.....
1940.....	31.9	65	-1	3.03	12.2	11	12	.....	.....
1941.....	29.4	53	-5	2.47	8.8	6	16	.....	.....
1942.....	29.7	63	-5	2.69	1.2	6	14	.....	.....
1943.....	32.9	71	-25	2.01	3.8	8	14	.....	.....
1944.....	32.3	65	-7	2.35	7.0	9	10	.....	.....
1945.....	32.2	60	-8	3.16	7.9	11	10	.....	.....
1946.....	32.3	73	-9	2.16	6.4	9	11	.....	.....
1947.....	28.2	63	-1	1.97	18.8	5	13	.....	.....
Period.....	30.7	80	-31	3.47	8.8	9	11	7	10

Climatological Data for February 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches					No. of days					Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	74	31.0	-2.4	50	18	5	5	1.71	-1.65	0.85	20-21	9.8	5	9	13	6	w.	U. S. Weather Bureau.
Belleplain.....	Cape May.....	49	53	30.6	-2.1	54	15	6	5	3.20*	.....	1.46	20-21	.....	6	10	14	4	sw.	Mrs. Edward C. Hoffmann.
Belmar.....	Monmouth.....	19	6	.....	.....	.....	.....	.....	.....	2.41	-1.09	1.48	20-21	19.5	4	14	12	2	.....	City Water Dept.
Belvidere.....	Warren.....	289	55	27.8	-0.6	50	14	2	5	1.65	.....	0.65	20-21	.....	5	12	8	8	nw.	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	6	.....	.....	.....	.....	.....	.....	1.08	.....	0.74	20-21	.....	4	14	5	9	nw.	Samuel H. McCulley.
Boonton.....	Morris.....	280	57	25.9	-2.3	48	4	5	5	1.66	-2.21	0.74	20-21	.....	4	14	5	9	nw.	J. C. Water Works.
Bridgeton.....	Cumberland.....	30	64	29.7	-4.3	52	4	6	5	1.68	-1.82	0.95	20-21	16.4	5	18	5	5	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	6	.....	.....	.....	.....	.....	.....	1.68	.....	1.21	20-21	15.7	3	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	61	31.0	-2.3	54	4	5	5	1.95	-1.31	1.20	20-21	17.0	7	15	7	6	w.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	140	17	26.2	-2.2	52	15	2	5	2.20	-0.58	1.21	20-21	.....	4	14	10	4	nw.	N. J. Dept. of Conservation
Cape May.....	Cape May.....	17	59	32.2	-2.6	50	1†	8	5	1.24	-1.94	0.55	20-21	.....	5	16	9	3	uw.	Richard F. Umfrid, Jr.
Charlotteburg††.....	Passaic.....	760	55	26.6	-0.5	52	14	0	5	1.76	-1.88	1.07	20-21	17.0	5	8	5	15	w.	Newark Water Dept.
Chatham.....	Morris.....	185	43	.....	.....	.....	.....	.....	.....	1.82	-1.71	1.16	20-21	19.0	3	11	14	3	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	7	29.0	.....	55	1	2	5	1.83	.....	0.74	4	17.0	5	10	16	2	w.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	34	29.0	-2.9	53	4	2	5	1.52	-1.86	0.47	4	21.3	6	11	10	7	nw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	4	.....	.....	.....	.....	.....	.....	1.42	.....	0.86	20-21	16.2	6	17	4	7	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	46	.....	.....	.....	.....	.....	.....	1.28	-1.52	1.00	20-21	18.5	6	.....	.....	.....	.....	L. S. Depue.
Elizabeth.....	Union.....	33	68	29.0	-2.3	52	1	2	5	2.85	-0.97	1.20	20-21	21.3	5	.....	.....	.....	.....	Union County Park Comm.
Flemington, 2 mi. NE.....	Hunterdon.....	134	61	28.9	-1.5	51	1	1	5	1.63	-1.58	0.82	20-21	17.5	7	16	7	5	nw.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	43	28.2	-3.3	52	4	2	5	1.57	-2.22	0.70	20-21	19.1	7	15	9	4	sw.	Moreau Plaut Co.
Hammononton.....	Atlantic.....	95	41	28.7	-5.7	54	1	1	5	.....	.....	.....	.....	.....	.....	11	8	9	w.	J. G. Wilson.
Hightstown.....	Mercer.....	100	54	27.9	-2.1	51	4	2	5	1.81	-1.46	0.87	20-21	19.9	7	11	13	4	w.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	54	28.0	-4.6	53	4	4	5	2.30	-1.07	1.00	20-21	17.0	6	11	13	4	w.	Edward Entwistle.
Jersey City.....	Hudson.....	135	49	27.0	-4.7	46	4	6	5	2.47	-1.04	1.23	20-21	.....	5	17	6	5	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	43	28.7	-3.0	50	1	3	5	2.67	-0.83	1.22	4	18.0	6	8	11	9	w.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	60	28.4	-2.3	52	4	4	5	2.21	-1.02	1.48	20-21	18.0	5	16	10	2	nw.	George Bailey.
Layton††, 3 miles NW.....	Sussex.....	480	46	25.4	-0.1	48	14†	0	5	1.08	-1.62	0.73	20-21	19.8	6	8	4	16	w.	A. M. Depue.
Little Falls.....	Passaic.....	157	44	28.9	-1.4	54	15	6	5	1.99	-1.40	1.00	20-21	20.5	4	11	11	6	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	39	28.5	-2.9	50	4†	4	5	3.30	-0.29	1.47	4	21.1	5	12	11	5	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	17	24.8	-2.9	46	4	-1	5	1.58*	-1.16	0.90	20-21	22.0	3	18	6	4	w.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	6	.....	.....	.....	.....	.....	.....	2.12	.....	0.56	7-8†	18.7	6	18	7	3	w.	David Griscorn.
Mays Landing.....	Atlantic.....	50	3	.....	.....	.....	.....	.....	.....	1.47	.....	0.61	4	15.8	6	.....	.....	.....	.....	Elmer Earle.
Millville.....	Cumberland.....	60	7	.....	.....	.....	.....	.....	.....	1.39	.....	0.68	20-21	.....	7	15	7	6	.....	Millville Mfg. Co.
Moorestown.....	Burlington.....	62	84	28.1	-3.7	53	4	6	5	1.30	-1.99	0.58	20-21	17.4	4	.....	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	6	27.4	.....	50	1	2	5	1.58	.....	0.82	20-21	17.4	4	15	1	12	.....	James C. Long.
Newark.....	Essex.....	11	93	28.2	-1.6	50	4	5	5	2.59	-0.93	1.39	20-21	20.5	5	7	12	9	w.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	99	93	28.9	-2.2	52	4	6	5†	2.14	-1.27	0.90	20-21	18.3	5	16	4	8	nw.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	29	.....	.....	.....	.....	.....	.....	2.32	-0.62	1.14	20-21	.....	5	.....	.....	.....	.....	Hackensack Water Co.
Newtown.....	Sussex.....	769	64	24.4	-2.8	47	4†	0	5	1.13	-2.06	0.72	20-21	20.5	3	8	15	5	sw.	Charles M. Wheeler.
Orange††.....	Essex.....	140	7	.....	.....	.....	.....	.....	.....	2.49	.....	1.37	20-21	.....	5	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	100	76	28.9	-1.7	51	4	6	5†	2.25	-1.63	1.06	20-21	17.5	5	7	16	5	w.	J. W. Cook.
Peimberton.....	Burlington.....	60	18	28.2	-5.4	53	4	4	5	2.29	-0.36	1.20	20-21	17.5	6	11	13	4	w.	Charles A. Doehrlert.
Phillipsburg.....	Warren.....	182	64	26.2	-2.8	53	1	0	5	2.33	-1.06	1.58	20-21	20.0	5	9	4	15	.....	Town Engineer.
Plainfield.....	Union.....	120	59	28.4	-1.5	51	4	3	5	2.19	-1.39	1.21	20-21	22.2	6	11	10	7	nw.	S. K. Pearson.
Plainboro.....	Middlesex.....	110	6	.....	.....	.....	.....	.....	.....	1.48	.....	0.87	20-21	16.0	4	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	49	29.8	-3.6	56	4	2	6	1.81	-1.22	0.71	4	13.3	4	12	9	7	nw.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	8	.....	.....	.....	.....	.....	.....	1.64	.....	0.73	4	19.5	5	16	7	5	nw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	30	27.7	-2.3	50	4	5	5	3.14	-0.06	1.62	20-21	25.2	6	13	9	6	nw.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	24	25.4	-5.2	45	18	3	5	2.36	-0.82	1.00	20-21	19.0	4	16	3	9	nw.	N. J. Dept. of Conservation
Rutherford.....	Bergen.....	51	3	28.3	.....	50	4†	6	5	2.57	.....	1.25	20-21	19.0	5	14	5	9	nw.	Harold Scott.
Sandy Hook.....	Monmouth.....	22	49	30.0	-2.1	49	4	6	5	2.32	-1.43	0.90	20-21	14.3	6	7	14	7	w.	U. S. Coast Guard.
Somerville.....	Somerset.....	65	64	27.7	-2.3	50	4†	1	6	1.81	-1.62	0.92	20-21	20.2	6	13	8	7	w.	William E. Haver.
Sussex.....	Sussex.....	450	52	26.2	-0.8	49	4	2	5	2.45	-0.64	1.60	20-21	24.5	5	11	3	14	w.	Marshall Huot.
Toms River.....	Ocean.....	33	26	.....	.....	.....	.....	.....	.....	2.25	-1.68	0.97	4	14.8	6	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	75	28.7	-2.0	53	4	5	5	1.69	-1.58	1.13	20-21	19.9	6	8	13	7	w.	U. S. Weather Bureau.
Trenton No. 2.....	.....do.....	105	17	28.8	-2.7	52	4	4	5	2.55	-0.25	1.58	20-21	23.8	6	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	54	31.4	-2.0	57	1	7	5†	1.63	-1.79	0.60	20-21	12.0	6	16	7	5	uw.	John H. Brown.
Vineland.....	Cumberland.....	110	67	.....	.....	.....	.....	.....	.....	1.60	-1.99	0.60	20-21	.....	5	17	8	3	sw.	Robert Jones.
Westfield.....	Union.....	135	8	.....	.....	.....	.....	.....	.....	1.77	.....	0.90	20-21	19.0	4	.....	.....	.....	.....	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	29	.....	.....	.....	.....	.....	.....	1.96	-1.04	1.10	20-21	.....	5	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	.....	10	77	28.9	-2.4	49	4	5	5	2.35	-1.47	1.06	20-21	20.6	5	8	13	7	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	26	77	30.1	-3.8	53	4	6	5	2.42	-0.90	1.73	20-21	17.5	6	12	11	5	w.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	28.2	-2.5	57	1	-1	5	1.97	-1.50	1.62	20-21	18.8	5	13	8	7	w.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

* Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoudland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for February 1947

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast	.05			.59			T.	.22											T.	.61	.24					T.						1.71
Bass River	do.																																
Belleplain	Tuckahoe																																
Belmar ²	Coast	.01			1.33			.03	.37												.71	.75											3.20
Belvidere	Delaware				.38				.55												*	1.48											2.41
Berlin ²	Mullica				.30				.40	T.												.65	.20				T.	T.					1.65
Boonton ³	Passaic	.10			.25				.09	T.												.63	.11										1.08
Bridgeton	Delaware		.03		.48				.20												.51	.41											1.66
Brooklawn	do.				.09				.38												T	1.21											1.68
Burlington	do.		.15		*	.25			.10												.20	1.00											1.95
Canoe Brook ³	Passaic				.56				.43													1.20	.01			T.							2.20
Canton ³	Delaware																																
Cape May ¹	Coast				.05	.40			.07												.17	.55											1.24
Charlotteburg	Passaic				.23	.16		.05	.25													1.07											1.76
Chatham ³	do.				.37				.29												*	1.16											1.82
Chatsworth	Coast	.05			.74	T.			.42													.62											1.83
Clayton	Delaware	.23			.45	.02		T.	.22												.29	.31					T						1.52
Clinton	Raritan				.23	.03		.02	.28												.14	.72											1.42
Culvers Lake	do.				.02	.13		.03	.10												*	1.00											1.28
Elizabeth	Coast				.65	.26		.04	.70												T.	1.20											2.85
Essex Falls ³	Passaic					.55			.76													1.31	.01										2.63
Flemington	Raritan	.01			.03	.30		.05	.42												.10	.72											1.63
Freehold	do.	.02			.52	.09		.02	.22												*	.70					T.						1.57
Hammonton	Mullica																																
Hightstown	Raritan	.01			.59	T.	T.	.02	.31												.07	.80					T.	.01					1.81
Indian Mills	Mullica	.05			.60	.17		T.	.38												*	1.10											2.30
Jersey City ²	Coast				.75			.03	.46												.80	.43											2.47
Lakewood	Metedeconk	.03			.92	.30		T.	.50												.12	.80					T.						2.67
Lambertville	Delaware	T.			.37	T.		.02	.34												.19	1.29											2.21
Layton	do.				.11	.09		.02	.13												*	.73											1.08
Little Falls ³	Passaic					.66			.33	T.												.99	.01										1.99
Long Branch ^{1†}	Coast				1.47			.02	.51												.61	.69					T.						3.30
Long Valley ³	Raritan					.18			.50													.90											1.58
Manville ³	do.	T.			.40	.30		T.	.30													.55	.13										1.38
Marlton	Delaware	.03			.47			.03	.53												.50	.56					T.						2.12
Mays Landing	Gt. Egg Harbor	.05			.46	.15			.12												.19	.50					T.						1.47
Midland Park ²	Passaic				.53			.03	.31												*	1.01											1.88
Millville ^{1†}	Maurice	.04			.40		.06	.02	.19													*	.68										1.39
Moorestown ³	Delaware	T.	T.	T.		.16			.46	T.												.58	.10				T.	T.	T.				1.30
Morris Plains	Passaic				.20	.29		T.	.27												T.	.82					T.	T.	T.				1.58
Newark ¹	Coast	T.			.70		T.	.03	.47												.85	.54					T.	T.	T.				2.59
New Brunswick	Raritan	T.			.34	.18			.02	.70											T.	.90					T.	T.	T.				2.14
New Milford ^{1†}	Hackensack				.78			.04	.36												.73	.41											2.32
Newton ³	Delaware				.25	T.	T.	.16	T.													.72	.1				T.	T.					1.13
Orange ¹	Passaic				.36	.40		.03	.33													1.37											2.49
Paterson ²	do.				.65		T.	.03	.51												.37	.69											2.25
Pemberton	Delaware	.03			.45	.20		T.	.25												.16	1.20						T.	T.				2.29
Phillipsburg	do.	T.			.42		T.	.08	.25												1.00	.58						T.	T.				2.33
Plainfield	Raritan	T.			.51	.03		.05	.39													.26	.95				T.	T.					2.19
Plainsboro	do.				.39	T.			.22												*	.87											1.48
Pleasantville ³	Coast	.15			.71				.26	T.												.69	T.					T.					1.81
Rahway ^{2†}	Rahway				.73			.03	.27												*	.61						T.					1.64
Ridgefield	Hackensack				.69	.29	T.	.04	.50												.30	1.32											3.14
Ringwood ³	Passaic					.84			.26													1.25											2.35
Rumyon	Coast				.78	.08			.50													1.00											2.36
Rutherford	Passaic		T.		.90	T.	T.	.02	.40												.38	.87	T.										2.57
Sandy Hook ^{2†}	Coast	.08			.87			.04	.43												.45	.45						T.	T.				2.32
Somerville	Raritan	T.			.24	.29		.02	.34												.08	.84						T.					1.81
Sussex	Hudson				T.	.20		.30	.35												.10	1.50											2.45
Swedesboro	Delaware	.12			.03	.02		.01	.10												.04	.98											1.30
Toms River	Coast	.03			.77	.20			.47												.20	.58											2.25
Trenton ^{1†}	Delaware	.02		T.	.27			.02	.25												.61	.52											1.69
Trenton No. 2 ²	do.	.01			.51			.02	.43												.87	.71					T.						2.55
Thickerton	Coast	.10			.48	.10			.25												.10	.60						T.					1.63
Vineland	Maurice					.40			.40												*	.60											1.60
Wanaque ³	Passaic				.50	T.			.14													.92											1.63
Westfield ^{3†}	Rahway					.56			.31													.87	.03										1.77
Woodcliff Lake ^{2†}	Hackensack				.58			.04	.24												.74	.36											1.96
Woodstown	Delaware																																
New York, N. Y. ^{1†}	Coast	T.			.81		T.	.02	.46												.74	.32						T.					2.35
Phila., Pa. ^{1†}	Delaware	.07	T.		.19	T.		.01	.42												1.48	.25						T.					2.42

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. [†] Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

§§ Incomplete.

Daily Temperatures for February 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*	Maximum...	47	37	43	50	16	39	49	37	26	35	37	40	40	42	45	44	47	50	40	33	33	30	32	30	40	38	35	36	...	...	...	38.2
	Minimum...	32	26	23	14	7	13	37	13	14	22	23	25	24	31	38	32	27	29	28	26	21	17	22	20	25	30	27	24	...	...	...	23.9
Belleplain	Maximum...	46	44	38	53	32	34	48	46	42	34	38	39	42	48	54	49	46	49	48	32	30	30	31	35	36	41	39	36	...	...	...	40.7
	Minimum...	25	27	17	31	6	10	31	16	12	20	12	17	18	18	21	27	25	21	27	22	18	17	21	18	22	28	25	21	...	...	...	20.5
Belvidere	Maximum...	41	33	35	48	28	27	40	34	23	35	35	41	42	50	42	39	45	47	40	35	26	32	30	30	40	40	35	35	...	...	...	36.7
	Minimum...	27	22	20	22	2	5	20	15	9	20	24	18	16	19	32	32	22	24	21	13	14	16	16	8	18	28	26	19	...	...	...	18.9
Boonton/	Maximum...	40	31	34	48	20	25	42	25	26	35	35	37	40	46	43	40	43	46	29	22	23	28	25	29	40	39	33	34	...	...	...	34.2
	Minimum...	24	26	19	22	5	7	10	21	11	10	24	16	19	19	20	30	23	22	21	11	13	15	17	10	13	21	25	19	...	...	...	17.6
Bridgeton	Maximum...	47	35	38	52	24	35	43	37	27	34	38	38	40	49	49	45	46	48	39	31	29	30	32	30	42	40	35	35	...	...	...	38.1
	Minimum...	28	29	20	24	6	10	26	12	12	19	21	20	21	22	31	31	26	24	29	20	19	16	19	16	23	27	25	20	...	...	...	21.3
Burlington	Maximum...	53	41	38	54	30	40	43	39	31	35	37	38	40	48	45	46	43	46	42	30	28	31	30	30	40	40	36	35	...	...	...	38.9
	Minimum...	29	29	24	23	5	10	22	25	14	20	23	26	21	24	35	34	27	25	17	18	20	24	16	25	34	27	25	...	...	...	23.2	
Canoe Brook /	Maximum...	43	34	39	50	17	27	42	27	25	36	39	40	44	49	52	43	47	49	34	24	26	28	26	28	41	39	35	37	...	...	...	26.5
	Minimum...	19	23	15	23	2	5	9	21	7	12	22	7	8	14	25	24	22	20	22	10	14	16	16	8	15	19	25	18	...	...	...	15.8
Cape May	Maximum...	50	43	37	50	37	36	48	42	28	33	37	37	38	44	46	44	41	47	43	32	34	32	32	31	37	37	36	37	...	...	...	38.9
	Minimum...	35	30	26	31	8	11	35	15	10	20	26	26	24	25	37	36	29	32	28	25	25	20	25	21	26	31	28	27	...	...	...	25.4
Charlotteburg	Maximum...	48	40	34	46	47	24	40	40	21	36	34	35	39	52	46	40	40	47	45	26	21	28	27	29	38	39	36	32	...	...	...	36.8
	Minimum...	27	20	16	24	0	4	7	19	5	12	20	20	15	12	26	32	19	22	17	5	11	15	15	17	20	24	22	16	...	...	...	16.5
Chatsworth	Maximum...	55	41	39	52	48	30	44	44	26	35	36	37	40	54	51	40	49	48	45	31	28	30	30	40	41	39	37	34	...	...	...	39.8
	Minimum...	22	24	17	28	2	3	15	17	9	20	18	8	15	16	28	28	24	24	25	17	17	15	16	9	20	28	24	17	...	...	...	18.1
Clayton	Maximum...	48	36	37	53	29	31	42	35	26	35	37	38	41	49	47	42	45	46	41	29	29	30	31	29	40	37	33	32	...	...	...	37.4
	Minimum...	27	28	20	29	2	9	24	11	9	18	19	16	20	32	33	34	26	25	27	18	18	15	17	13	22	26	23	19	...	...	...	20.7
Elizabeth	Maximum...	52	40	38	50	38	27	40	37	25	38	39	40	43	49	44	45	47	49	45	31	27	30	30	32	43	49	37	36	...	...	...	39.3
	Minimum...	25	27	30	25	2	5	15	17	7	17	22	15	17	21	27	27	23	25	23	14	15	16	17	6	19	20	25	21	...	...	...	18.7
Flemington	Maximum...	51	40	37	49	35	29	45	38	27	37	40	42	44	50	45	41	45	48	44	30	28	32	29	29	42	39	36	37	...	...	...	38.9
	Minimum...	28	27	19	24	1	7	12	13	8	19	23	15	17	20	27	36	23	25	23	14	15	17	17	7	18	27	25	21	...	...	...	18.9
Freehold	Maximum...	47	39	38	52	32	28	42	34	25	35	37	38	41	47	46	42	45	46	42	27	27	30	29	29	41	40	35	34	...	...	...	37.4
	Minimum...	27	26	19	29	2	4	22	13	8	17	22	18	16	26	31	32	22	24	23	12	15	15	10	18	25	22	17	...	...	...	18.9	
Hammonton	Maximum...	54	36	42	52	34	35	39	38	35	38	32	40	43	46	52	46	50	49	42	32	32	31	31	41	42	41	36	35	...	...	...	39.8
	Minimum...	36	29	21	28	1	6	24	12	5	12	16	18	13	22	27	30	22	18	24	19	16	6	12	9	18	18	13	...	...	...	17.6	
Hightstown	Maximum...	46	40	37	51	33	28	41	35	24	34	36	38	40	46	45	42	45	46	42	29	27	28	26	27	40	38	36	33	...	...	...	36.9
	Minimum...	26	26	19	29	2	7	22	12	7	18	21	16	17	23	27	31	22	23	23	15	16	11	19	19	24	24	19	...	...	...	18.9	
Indian Mills	Maximum...	47	34	38	53	29	29	43	34	26	35	36	37	42	50	49	42	45	48	41	28	29	31	30	29	42	38	35	34	...	...	...	37.6
	Minimum...	23	22	17	28	4	5	17	11	10	18	18	10	14	19	30	31	24	18	25	17	18	15	17	12	21	29	24	17	...	...	...	18.4
Jersey City*	Maximum...	40	31	32	46	17	31	37	32	20	34	36	34	40	45	40	41	44	45	30	23	22	26	24	27	38	36	32	...	...	...	33.5	
	Minimum...	29	25	22	17	6	8	28	9	9	17	24	24	21	30	35	30	23	25	20	14	12	16	18	13	21	26	26	22	...	...	...	20.4
Lakewood	Maximum...	50	36	38	51	33	30	41	35	25	35	35	37	38	48	47	42	45	49	42	29	28	29	29	29	41	38	35	34	...	...	...	37.5
	Minimum...	27	27	19	27	3	4	18	15	10	18	23	14	18	26	28	20	24	25	25	19	17	17	18	12	20	26	26	20	...	...	...	19.9
Lambertville	Maximum...	46	34	40	52	27	31	44	34	27	35	37	42	43	50	41	41	47	47	43	28	28	30	27	30	41	39	36	31	...	...	...	37.5
	Minimum...	24	26	21	26	4	9	15	12	10	19	24	12	14	19	27	32	24	25	24	16	19	17	17	11	20	28	26	20	...	...	...	19.3
Layton	Maximum...	44	35	35	42	35	24	41	32	22	35	35	35	43	48	42	43	42	48	39	24	22	25	27	32	41	36	34	32	...	...	...	35.5
	Minimum...	19	33	12	26	0	3	9	20	7	17	21	8	8	11	26	28	19	22	18	4	13	13	14	3	13	24	22	18	...	...	...	15.4
Little Falls/	Maximum...	48	38	39	51	19	32	43	28	30	36	38	39	48	50	54	43	47	49	32	27	25	30	28	36	43	40	35	36	...	...	...	38.0
	Minimum...	26	27	23	26	6	8	14	22	9	20	24	17	14	19	28	30	24	25	22	13	14	18	19	13	20	26	26	21	...	...	...	19.8
Loug Branch*	Maximum...	44	34	40	50	17	35	43	35	25	35	36	38	40	50	47	44	45	46	36	25	27	30	28	41	39	35	34	...	...	...	36.7	
	Minimum...	28	26	20	18	4	6	27	8	10	19	23	20	19	27	33	31	25	26	25	18	16	17	16	13	20	25	23	...	...	...	20.3	
Long Valley/	Maximum...	42	32	33	46	15	24	39	26	24	35	38	39	41	44	42	40	44	45	30	22	26	23	26	27	39	38	33	35	...	...	...	33.6
	Minimum...	21	23	16	23	1	1	7	20	6	16	21	10	10	13	25	33	19	23	19	10	15	14	15	4	17	24	23	...	...	...	15.8	
Moorestown*	Maximum...	44	33	37	53	14	34	43	35	25	34	36	37	42	48	45	40	44	47	37	24	27	29	28	38	39	36	34	32	...	...	...	35.9
	Minimum...	29	28	23	13	6	11	21	10	9	19	22	19	21	25	28	29	25	27	24	17	19	17	19	14	20	30	26	17	...	...	...	20.3
Morris Plains	Maximum...	50	37	35	49	46	26	42	41	25	35	36	37	41	47	45	42	43	48	45	28	24	28	28	42	40	36	35	...	...</	

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION

A. E. WHITE.

TRENTON, N. J.

Vol. LII.

MARCH 1947

No. 3

GENERAL SUMMARY

Temperature for March averaged considerably below normal at all stations and there was no warm period of consequence during the month. The warmest day was the 14th, when readings around 65° were registered at many stations. The monthly average was almost the same as for January this year, but at no time were temperatures as high as during the last week of January, when several stations reported above 70°. The coldest morning in most localities was the 1st, but only one station, Layton, registered as low as zero.

Precipitation was about 70 percent of normal, being greatest in the Highland region of the north and least in the coastal area. There was moderately heavy rainfall and some snow from the 1st to 3d, general rains on the 13th to 14th, and a wet period from the 22d to 25th. Monthly snowfall, which was near normal, occurred mostly during the first three days. It was the windiest March for several years. In fact, records show the greatest monthly mileage at Trenton for 10 years. The last week, in particular, was characterized by strong winds throughout the State. It is not thought that much damage was caused by wind, however. Considerable progress was made in plowing and other farming operations in South Jersey.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 44 stations, was 36.5°, which was 2.9° below normal. The highest temperature was 67° at Plainfield on the 14th, and the lowest, 0°, at Layton on the 1st. The highest monthly mean temperature was 38.2° at Bridgeton, and the lowest, 32.8° at Newton. The temperature departure from the normal for the year 1947, to date, for the State is +0.1°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 60 stations, was 2.71 inches, which was 1.10 inches below normal. The average total snowfall at 30 selected stations was 4.4 inches, which was 0.1 inch below normal. The greatest monthly precipitation was 4.52 inches at Elizabeth, and the least, 1.43 inches at Tuckerton. The greatest amount of precipitation in any 24 consecutive hours was 1.94 inches at Culvers Lake on the 13-14th. The average for the Highlands was 3.56 inches; for the Red Sandstone Plain, 2.96 inches; for the Southern Interior, 2.32 inches; and for the Sea Coast, 2.10 inches. The precipitation accumulated departure from the normal for the year 1947, to date, by sections, is: the Highlands, -1.23 inches; Red Sandstone Plain, -2.84 inches; Southern Interior, -2.69 inches; Sea Coast, -2.92 inches.

ERRATA: February, 1947

Newark, Sea Level Pressure, Highest should be 30.46; Lowest should be 29.24.
Trenton, Sea Level Pressure, Highest should be 30.50. Lowest should be 29.26.
Trenton No. 2, Temperature departure from normal should be -2.9°.

DATES OF MISCELLANEOUS PHENOMENA.

THUNDERSTORMS: 14, 25.

HEAVY FOG: 2, 14, 24, 25.

SLEET: 1, 2, 13, 15.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.51	12	28.97	25	16.8	46	w.	26	71	59	65	68	848
Long Branch.....	30.51	12	28.90	25	14.6	57	w.	25	68	49*	62	62	863
Newark.....	30.50	12	28.85	25	.....	55	ws.w.	25	68	49	62	.....	850
Trenton.....	30.51	12	28.94	25	11.4	34	sw.	25	65	49*	.....	59	839

* Noon

COMPARATIVE DATA FOR MARCH

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	30.4	66	2	1.10	.....	.....	.....	.....	.....
1886.....	37.7	70	9	3.70	.....	.....	.....	.....	.....
1887.....	37.7	61	8	3.34	.....	.....	.....	.....	.....
1888.....	32.8	72	0	5.71	.....	.....	.....	.....	.....
1889.....	40.5	67	19	3.79	.....	.....	.....	.....	.....
1890.....	37.6	78	0	6.08	.....	.....	.....	.....	.....
1891.....	37.2	68	4	5.06	.....	.....	.....	.....	.....
1892.....	34.4	64	6	4.75	.....	.....	.....	.....	.....
1893.....	37.0	68	6	3.73	.....	.....	.....	.....	.....
1894.....	44.2	83	12	1.77	.....	.....	.....	.....	.....
1895.....	36.7	72	7	3.16	.....	.....	.....	.....	.....
1896.....	34.0	69	-8	3.34	13.2	.....	.....	.....	.....
1897.....	40.0	77	18	2.78	1.6	.....	.....	.....	.....
1898.....	45.1	77	16	3.33	3.0	.....	.....	.....	.....
1899.....	38.6	73	13	6.54	5.4	.....	.....	.....	.....
1900.....	35.6	67	-9	3.51	7.0	.....	.....	.....	.....
1901.....	39.2	75	-8	4.64	0.9	.....	.....	.....	.....
1902.....	43.9	77	0	4.34	5.7	.....	.....	.....	.....
1903.....	47.6	79	13	5.13	T.	.....	.....	.....	.....
1904.....	37.2	72	1	3.43	4.5	.....	.....	.....	.....
1905.....	39.8	87	-7	3.95	2.6	.....	.....	.....	.....
1906.....	34.4	62	-15	5.09	11.2	.....	.....	.....	.....
1907.....	41.2	88	-11	3.04	11.5	.....	.....	.....	.....
1908.....	41.8	89	7	2.80	3.5	.....	.....	.....	.....
1909.....	38.3	74	-6	3.48	4.6	.....	.....	.....	.....
1910.....	44.5	88	10	1.22	1.1	.....	.....	.....	.....
1911.....	37.6	76	3	3.38	5.3	.....	.....	.....	.....
1912.....	36.9	72	3	7.61	6.6	.....	.....	.....	.....
1913.....	44.8	79	1	5.15	0.1	.....	.....	.....	.....
1914.....	35.4	75	-6	3.65	20.6	.....	.....	.....	.....
1915.....	36.1	63	11	1.13	7.4	.....	.....	.....	.....
1916.....	31.7	71	-7	3.48	19.3	.....	.....	.....	.....
1917.....	38.2	72	0	4.65	9.8	.....	.....	.....	.....
1918.....	41.8	82	8	2.06	0.7	.....	.....	.....	.....
1919.....	43.2	77	12	5.32	1.6	.....	.....	.....	.....
1920.....	39.4	79	-8	3.80	5.6	.....	.....	.....	.....
1921.....	49.1	92	11	3.03	T.	.....	.....	.....	.....
1922.....	41.1	82	2	4.52	3.7	.....	.....	.....	.....
1923.....	38.0	81	-3	4.09	6.3	.....	.....	.....	.....
1924.....	38.8	76	5	2.51	2.7	.....	.....	.....	.....
1925.....	43.3	80	1	3.47	0.3	.....	.....	.....	.....
1926.....	35.1	79	0	2.25	0.4	.....	.....	.....	.....
1927.....	41.9	81	9	1.46	0.3	.....	.....	.....	.....
1928.....	38.3	82	6	2.84	4.9	.....	.....	.....	.....
1929.....	44.9	81	5	3.07	0.7	.....	.....	.....	.....
1930.....	40.0	78	9	2.54	0.1	.....	.....	.....	.....
1931.....	39.2	64	12	4.14	2.0	.....	.....	.....	.....
1932.....	36.6	69	3	5.49	2.5	.....	.....	.....	.....
1933.....	38.2	70	8	4.94	1.7	.....	.....	.....	.....
1934.....	36.5	77	-7	3.31	9.6	.....	.....	.....	.....
1935.....	43.0	81	-6	2.46	1.5	.....	.....	.....	.....
1936.....	45.3	78	-1	5.28	1.4	.....	.....	.....	.....
1937.....	35.8	66	7	2.75	4.3	.....	.....	.....	.....
1938.....	43.2	85	-1	2.15	1.6	.....	.....	.....	.....
1939.....	40.1	83	2	4.83	2.0	.....	.....	.....	.....
1940.....	34.7	72	8	5.14	3.3	.....	.....	.....	.....
1941.....	34.5	63	3	2.78	14.6	.....	.....	.....	.....
1942.....	42.2	72	16	5.73	1.7	.....	.....	.....	.....
1943.....	39.4	85	-10	3.03	6.5	.....	.....	.....	.....
1944.....	37.1	74	2	5.70	6.3	.....	.....	.....	.....
1945.....	49.2	91	11	2.37	0.1	.....	.....	.....	.....
1946.....	47.9	83	8	3.17	T.	.....	.....	.....	.....
1947.....	36.5	67	0	2.71	4.4	.....	.....	.....	.....
Period	39.4	92	-15	3.81	4.5	12	13	8	10

Climatological Data for March 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	74	37.6	-1.0	58	24	25	1	2.10	-1.50	0.87	1-2	2.3	10	8	11	12	w.	U. S. Weather Bureau.
Belleplain	Cape May	49	53	37.2	-4.0	66	14†	11	19	2.15	-1.67	0.85	1-2	4.2	9	13	9	9	w.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	6							1.99		1.15	2		9				w.	City Water Dept.
Belvidere	Warren	289	55	35.6	-3.1	63	14	8	1	2.77	-1.05	0.80	13-14	6.5	7	16	7	8	w.	Miss C. S. Hixson.
Berlin, 1 mile W.	Camden	70	6							2.67		0.70	1-2		9	9	14	8	nw.	Samuel H. McCulley.
Boonton	Morris	280	579	34.6	-1.7	60	14	9	1	2.97	-0.59	1.15	13-14		6				nw.	J. C. Water Works.
Bridgeton	Cumberland	30	64	38.2	-4.3	66	14	17	1	2.29	-1.77	1.06	1-2	5.2	7	17	4	10	w.	Bennett K. Matlack.
Brooklawn	Camden	30	6							1.80				1.5	5					C. D. Scott.
Burlington	Burlington	12	619	37.8	-4.6	60	14†	20	7	2.87	-0.92	1.00	1-2	2.0	7				w.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	17	35.0	-2.2	64	14	1	1	3.15	-1.45	0.92	13-14		6	17	7	7	w.	N. J. Dept. of Conservation
Cape May	Cape May	17	59	38.1	-3.7	57	14	20	1	1.66	-2.18	0.70	1-2		7	14	12	5	w.	Richard F. Umfrid, Jr.
Charlotteburg††	Passaic	760	55	33.6	-2.8	60	14	5	1	4.13	+0.07	1.40	13-14	8.5	7				w.	Newark Water Dept.
Chatham	Morris	185	43							2.86	-1.23	0.99	13-14		8	15	11	5		Edward P. Molitor.
Chatsworth	Burlington	90	7	36.8		63	14†	7	1	2.26				3.0	5	9	19	3	nw.	Alfred L. Stevenson.
Clayton	Gloucester	129	34	37.4	-4.6	66	14	14	1	3.07	-0.55	1.39	1-2	2.1	8	12	13	6	nw.	Harry P. Campbell.
Clinton	Hunterdon	300	4							2.80		0.83	1-2	6.5	9	13	4	14	nw.	L. W. Klockner.
Culvers Lake††	Sussex	760	46							4.22	+0.91	1.94	13-14	5.5	5					L. S. Depue.
Elizabeth	Union	33	68	37.8	-1.8	64	14	12	1	4.52	+0.45	1.89	1-2	4.2	5	16	3	12	nw.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	134	619	37.6	-3.0	66	14	10	1	2.77	-0.99	0.86	13-14	5.0	9	16	9	6	w.	Hiram E. Deats.
Freehold	Monmouth	194	439	37.0	-2.8	64	14	15	1	2.39	-2.10	1.25	1-2	3.5	6	12	11	8	nw.	Moreau Plant Co.
Hammonton	Atlantic	95	419	37.8	-5.0	66	14	9	1	2.55	-1.42				4	15	8	8	sw.	J. G. Wilson.
Hightstown	Mercer	100	54	36.6	-4.1	62	14	11	1	2.21	-1.56	0.94	1-2	3.9	7	10	14	7	nw.	James R. Pickering
Indian Mills††, 2 mi. W	Burlington	100	58	35.8	-5.3	64	14	6	1	2.85	-1.16	1.16	1-2	4.9	9	10	17	4	nw.	Edward Entwistle.
Jersey City	Hudson	135	49	35.3	-4.8	58	14	20	1	2.37	-1.60	1.40	2		8	17	5	9	sw.	J. C. Water Dept.
Lakewood	Ocean	54	43	37.2	-3.3	65	14	10	1	2.11	-1.85	1.08	1-2	2.5	8	4	17	10	w.	R. W. Holman.
Lambertville	Hunterdon	75	60	37.0	-2.5	65	14	18	19†	2.32	-1.46	0.70	1-2	3.3	8	9	16	6	w.	George Bailey.
Layton††, 3 miles NW.	Sussex	489	46	33.6	-2.2	61	14	0	1	3.48	+0.12	1.19	2-3	5.6	8	7	6	18	nw.	A. M. Depue.
Little Falls	Passaic	167	44	37.0	-2.0	64	14	10	1	3.47	-0.30	1.07	2-3	3.5	8	16	7	8	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	39	37.0	-2.5	66	14	17	1	2.33	-1.79	1.12	2	3.0	8	10	10	11	w.	Storm Warn. Display Sta.
Long Valley	Morris	660	17	34.0	-1.8	62	14	5	1	3.48	-0.44	1.25	13-14	6.0	7	16	11	4	w.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	6							2.68		1.10	1-2	3.2	11	12	11	8	nw.	David Grisman.
Mays Landing	Atlantic	50	3							2.15				4.7	8	14	8	9	nw.	Elmer Earle.
Millville†	Cumberland	69	7	37.0		65	14	16	1	2.60		1.45	1-2	1.5	9	15	5	11		Millville Mfg. Co.
Moorestown	Burlington	62	84	36.8	-3.2	65	14	12	1	2.12	-1.56	0.60	14	1.4	8					Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	400	6	35.4		63	14	6	1	4.07		1.55	13-14	6.9	6	17	4	10		James C. Long.
Newark	Essex	11	93	37.6	-2.0	64	14	19	1	2.18	-1.72	1.07	2-3	4.3	8	10	8	13	w.	U. S. Weather Bureau.
New Brunswick	Middlesex	99	93	37.2	-1.9	63	14	14	1	2.33	-1.35	0.78	1-2	5.7	6	12	8	11	sw.	N. J. Experiment Station.
New Milford††	Bergen	12	29							2.71	-1.05	1.27	2		7					Hackensack Water Co.
Newton	Sussex	769	64	32.8	-3.3	61	14	2	1	3.28	-1.01	1.17	13-14	8.0	7	9	17	5	sw.	Charles M. Wheeler.
Orangetown	Essex	140	7							3.50		0.96	13-14		6					County Engineer.
Paterson	Passaic	100	76	37.0	-2.4	63	14	15	1	3.32	-0.83	1.30	2	4.3	9	10	13	8	w.	J. W. Cook.
Pemberton	Burlington	60	18	37.0	-5.1	65	14	10	1	2.34	-1.25	0.99	1-2	4.0	9	10	10	11	nw.	Charles A. Doehliert.
Phillipsburg	Warren	182	649	33.6	-4.9	61	14	10	1	4.51	-1.02	1.29	1-2	4.5	9	13	9	9		Town Engineer.
Plainfield	Union	120	59	37.4	-1.9	67	14	13	1	2.93	-1.16	1.44	1-2	6.2	7	10	13	8	nw.	S. K. Pearson.
Plainsboro	Middlesex	110	6							1.78		0.74	1-2	4.0	5					Walker-Gordon Lab.
Pleasantville††	Atlantic	8	49	36.0	-4.6	53	15	9	1	2.08	-1.55	0.91	1-2		9	10	12	9	w.	N. J. Dept. of Conservation.
Rahway	Union	20	8							2.29				2.0	7	16	9	6	nw.	Louis Fontenelli.
Ridgefield	Bergen	80	30	36.8	-2.0	63	14	14	1	3.26	-0.72	1.38	1-2	7.1	8	11	11	9	nw.	George P. Kirsten.
Runyon††	Middlesex	18	24	35.0	-4.3	58	14	6	1	2.28	-1.33	0.85	1-2		6	17	9	5	w.	N. J. Dept. of Conservation
Rutherford	Bergen	51	3	37.4		65	14	15	1	2.73		1.13	1-2	3.4	8	8	15	8	w.	Harold Scott.
Sandy Hook	Monmouth	22	49	38.3	-1.0	58	14	21	27	2.40	-1.64	1.40	2	0.3	8	5	19	7	w.	U. S. Coast Guard.
Somerville	Somerset	65	64	36.6	-2.4	65	14	12	1	2.74	-1.08	0.88	1-2	3.5	7	13	8	10	w.	William E. Haver.
Sussex	Sussex	450	52	34.6	-2.4	60	14	2	1	2.64	-0.80	1.50	13-14	4.5	6	13	3	15	w.	Marshall Hunt.
Tooms River	Ocean	33	26							2.15	-2.39	1.35	1-2	3.0	6					Robt. F. Snyder.
Trenton	Mercer	56	75	38.0	-1.1	65	14	21	1	1.90	-1.50	0.78	1-2	3.1	8	9	11	11	nw.	U. S. Weather Bureau.
Trenton No. 2	do.	105	17	37.9	-2.4	65	14	17	1	2.39	-1.65	0.92	2	3.4	9					Edward H. Ristow.
Tuckerton	Ocean	23	54	36.8	-4.6	56	15†	18	1	1.43	-2.47	0.43	14	2.0	8	15	5	11	nw.	John H. Brown.
Vineland	Cumberland	110	67							2.35	-1.60	1.70	1-2		4	10	15	6	sw.	Robert Jones.
Westfield	Union	135	8							2.80		0.94	2-3	5.0	4					Town Engineer.
Woodcliff Lake††	Bergen	103	29							3.26	-0.44	1.48	2		7					Hackensack Water Co.
New York, N. Y.		10	77	37.4	-0.3	62	14	22	26	2.77	-0.87	1.56	1-2	5.3	8	11	10	10	nw.	U. S. Weather Bureau.
Philadelphia, Pa.		26	77	39.0	-1.8	65	14	26	27	2.19	-1.20	0.91	1-2	2.5	11	9	13	9	w.	U. S. Weather Bureau
For the State				36.5	-2.9	67	14	0	1	2.71	-1.10	1.94	13-14	4.4	7	12	10	9	w.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow.

* Partly estimated. Amounts in italics are interpolated. † Precipitation at Millville Mfg. Co.; temperature at Airport 2 miles southwest of city.

† On other dates a-l-o. ‡ Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for March 1947

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast	.18	.82	.01					.01					.09	.28			T			.05	.01	.60	T	.05	T	T	T	T			2.10	
Bass River	do.														.28								.45	T	.15	.05						2.15	
Belleplain	Tuckahoe	.02	.85	.20					.10						.33			T			.01	T	.1	T	.08	.10			.05		.02	T	1.99
Belmar ²	Coast	.13	1.15	.09											.08	.33																2.77	
Belvidere	Delaware	.08	.74	.65											.05	.75		T					.30	.20	T							2.67	
Berlin ³	Mullica	T	.70	.55											.03	.57							.06	.06	T	.50	.03	T		.30	T	2.97	
Boonton ³	Passaic	.47	.79												1.15	.03		T					T	T	T	.22	.18					2.29	
Bridgeton	Delaware	.23	1.06	.08					T						.03	.44						T							.05			1.80	
Brooklawn	do.														.53								.28		.26							2.87	
Burlington	do.	T	1.00	.15										T	.25							.20	T	.92	.20						.15	3.15	
Canoe Brook ³	Passaic		.64	.83											.91	.01		T					T	.31	.13	.16			.04	T		1.96	
Canton ³	Delaware		.58	.30											.28	.20							.31		.13	.16			T			1.66	
Cape May ¹	Coast	T	.70	.30					.14						.16								.26	T	.05	.05			.05			4.13	
Charlotteburg	Passaic		1.07	1.04											1.40								.03	.02	.50	.07					T	2.86	
Chatham ³	do.		.53	.67											.82		.17						.10		.02	.60	.03	T				2.26	
Chatsworth	Coast	T	*	1.56											.54	T							.27	.17	.23						T	3.07	
Clayton	Delaware	.03	1.39	.16					T						.78								.22	.02	.11	.52	T				.04	2.80	
Clinton	Raritan	.04	.83	.28											.04	.74			T													4.22	
Culvers Lake	do.		.74	.71											1.94								.13	T	.70							4.52	
Elizabeth	Coast	T	1.89	1.16							T				.92			T					T	.13	.42	T		T			.03	T	3.59
Essex Fells ³	Passaic		.45	1.30											.90	.30								.20	T	.41	T					2.77	
Flemington	Raritan	T	.72	.42											.02	.84			T				.20	.02	.10	.43	.02					2.39	
Freehold	do.	.05	1.25	.35											T	.48							T		.14	.12	T					2.55	
Hammononton	Mullica	T	*	1.45					T						.81						T		.29		T		T					2.21	
Hightstown	Raritan	.01	.94	.25											T	.49		T				T	.10	T	.14	.28						2.85	
Indian Mills	Mullica	.06	1.16	.35											.03	.68		T					.28		.10	.12	T				.07	2.37	
Jersey City ²	Coast	.16	1.40	.10											.04	.30		T							.12	.24	.01					2.11	
Lakewood	Metedeconk	.04	1.08	.38											.02	.40						T	.05	T	.07						.07	2.32	
Lambertville	Delaware	.07	.70	.28						T					T	.56							.16	T	.16	*	.39					3.48	
Layton	do.	.01	.41	1.19											.02	1.12							.10		.09	.54						3.48	
Little Falls ³	Passaic		.79	1.07											.93	T			T				.01	.01	.01	.63	.02					2.33	
Long Branch ^{2†}	Coast	.30	1.12	.30											.15	.27					T	.01	T	.10	.05	.13	T					3.48	
Long Valley ³	Raritan		.90	.40											1.20	.05							T	.10	.08	.75						2.68	
Manville ³	do.		.15	1.00											.12	.20							T	T	.30	.21					.07	1.98	
Marlton	Delaware	.05	1.10	.15											.05	.60		T					.28	.01	.16	.20		.01			.07	2.15	
Mays Landing	Gt. Egg Harbor	*	.95	.18					T						.21	.22	.10				T	T	.37	T	.12							3.99	
Midland Park ²	Passaic	.19	1.68	.12											* 1.30			T						.02	.65	.03						2.60	
Millville ^{2†}	Maurice	.34	1.11	.12					T						.18	.24						.08	.35	.16	.02		T				.02	4.07	
Moorestown ³	Delaware		.51	.43											T	.60		T					.25	T	.02	.28	T		.01			2.18	
Morris Plains	Passaic	T	.52	1.34					T		T				1.55		T	T	T				T	T	.08	.56	.02					2.33	
Newark ¹	Coast	.12	1.06	.14											.24	.24	T	T					T	T	.12	.24	.02					2.71	
New Brunswick	Raritan	T	.78	.65											.52		T						.02	T	.12	.24	T					3.28	
New Milford ^{2†}	Hackensack	.12	.27	.12											.33	.49								.04	.34							3.50	
Newton ³	Delaware		.32	.98											1.17	.11		T					.05	T		.60	.05				T	3.32	
Orange ¹	Passaic		.84	.95											.96									.04	.68	.03						3.33	
Pateron ²	do.	.15	1.30	.15											.34	.58		T					T	T	.02	.74	.03			.01		2.34	
Pemberton	Delaware	.01	.99	.35											T	.42	.07		T				.13	T	.11	.22	T		T		.04	4.51	
Phillipsburg	do.	.17	1.29	.29											.40	.88	T		T				.26	T	.40	.68	.14					2.93	
Plainfield	Raritan	.10	1.44	.19											.08	.52		T					T	T	.18	.42	T					1.78	
Plainsboro	do.	T	.74	.30											.48								.03	.23								2.08	
Pleasantville ³	Coast			.91	.07										.33	.25		T				.01	.37	.06	.01	.07						2.29	
Rahway ^{2†}	Rahway	*	*	1.36											*	.49									.10	.34						3.26	
Ridgefield	Hackensack	.08	1.38	.50											.03	.83		T							.17	.22	.05					.03	2.28
Ringwood ³	Passaic		.64	.58											1.45	.04								T	.01	.55	.04						3.34
Runyon	Coast		.85	.58											.51										.11	.13	.10						2.73
Rutherford	Passaic	.10	1.13	.11											.01	.93		T					T	T	.07	.37	.01						2.40
Saudy Hook ^{2†}	Coast	.18	1.40	.19						T		T			.12	.27		T						T	.04	.17				.03			2.74
Somerville	Raritan	.04	.88	.55											T	.67	T						.06	T	.12	.42	T					T	2.64
Sussex	Hudson	T	.09	.20											1.50			T					.15	.25	.20	.50						.01	2.08
Swedesboro																																	

Daily Temperatures for March 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum... 37	44	36	38	42	48	45	34	44	45	43	43	45	53	48	44	41	38	38	40	46	44	48	58	53	35	40	45	47	47	41	43.5
	Minimum... 25	30	29	29	29	30	29	27	28	30	31	36	43	39	33	30	28	27	32	32	34	33	31	43	35	30	29	30	37	38	31	31.8
Belleplaiu.....	Maximum... 37	44	36	38	42	46	43	41	42	43	47	51	48	66	66	50	48	43	41	42	55	46	57	54	56	43	41	44	57	54	51	47.5
	Minimum... 13	30	26	26	28	28	21	25	24	27	20	20	25	44	28	37	22	20	11	19	25	32	27	45	40	28	27	28	28	32	35	26.8
Belyidere.....	Maximum... 36	40	35	35	45	43	41	40	42	47	46	51	53	63	55	47	35	40	45	53	52	44	58	51	50	33	38	44	50	48	53	45.7
	Minimum... 8	29	25	19	27	33	27	24	20	23	31	22	23	40	33	23	23	24	20	23	27	33	27	24	30	24	24	22	28	32	21	25.5
Boonton /.....	Maximum... 31	38	32	35	39	43	39	37	39	40	45	48	53	60	52	42	37	36	43	51	54	41	54	54	48	33	37	41	49	42	51	43.5
	Minimum... 9	15	24	25	26	28	30	24	26	28	31	24	22	30	31	24	26	22	23	21	27	32	30	33	45	20	20	24	27	31	20	25.7
Bridgetou.....	Maximum... 40	42	35	38	42	44	43	37	42	44	48	50	58	66	57	45	42	39	50	49	56	47	61	57	55	41	43	45	57	52	52	47.6
	Minimum... 17	30	25	25	27	28	27	28	25	26	28	26	24	44	30	29	30	26	22	24	28	35	29	46	40	28	27	28	28	36	26	28.8
Burlington.....	Maximum... 35	40	39	37	40	42	39	41	40	48	47	54	58	60	58	40	40	38	44	45	55	48	55	54	56	40	42	44	56	55	55	46.6
	Minimum... 25	30	30	25	29	28	20	26	27	30	29	26	25	32	38	30	30	34	25	22	27	32	30	38	38	30	27	23	28	32	30	28.9
Canoe Brook /.....	Maximum... 34	38	34	37	41	47	41	37	42	43	48	51	55	64	57	44	40	39	46	52	54	43	55	53	59	35	40	44	51	45	52	45.0
	Minimum... 1	20	26	25	24	30	39	19	18	26	26	17	18	35	30	21	21	18	17	18	23	34	24	35	45	20	23	24	23	33	16	24.2
Cape May.....	Maximum... 38	44	36	38	39	42	40	41	42	45	45	49	57	54	46	42	43	39	43	41	45	53	51	51	47	42	44	55	55	45	45.0	
	Minimum... 20	32	26	28	32	32	27	27	29	32	28	24	42	31	34	33	30	27	26	30	35	35	43	45	30	27	29	34	38	31	31.2	
Charlotteburg.....	Maximum... 32	38	38	34	38	40	38	37	36	39	42	45	50	60	59	53	43	36	43	50	52	48	55	54	50	35	35	39	48	42	50	43.8
	Minimum... 5	25	22	22	23	32	26	20	20	27	30	17	24	35	30	20	20	17	20	15	24	31	29	36	32	16	19	22	23	28	16	23.4
Chatsworth.....	Maximum... 37	42	40	38	40	45	41	39	41	45	47	52	63	63	56	42	40	43	48	54	47	58	55	54	44	42	43	56	52	51	47.4	
	Minimum... 7	30	25	25	25	26	25	23	25	20	21	18	42	28	28	28	19	14	17	22	34	32	51	43	27	22	28	26	35	18	26.1	
Clayton.....	Maximum... 37	40	34	37	40	44	42	37	42	43	48	50	55	66	55	40	37	43	48	55	45	68	57	55	40	41	44	56	52	51	46.4	
	Minimum... 14	30	24	26	27	26	28	26	24	27	26	25	24	43	33	31	29	27	21	23	28	33	29	49	40	27	26	28	27	34	25	28.4
Elizabeth.....	Maximum... 36	39	36	40	42	48	43	50	44	45	48	52	54	61	64	55	52	40	46	51	56	47	56	57	54	39	43	45	53	53	55	48.6
	Minimum... 12	29	26	24	26	21	20	25	25	27	29	23	49	32	25	25	31	19	22	19	36	27	45	38	24	23	26	26	34	22	26.9	
Flemington.....	Maximum... 37	39	37	38	41	43	42	37	43	44	46	53	55	66	61	52	39	41	46	53	56	51	59	56	54	38	41	45	53	52	55	47.5
	Minimum... 10	29	26	26	27	32	30	25	25	28	30	25	22	40	34	27	27	24	20	22	26	33	29	47	37	24	25	25	28	33	20	27.6
Freehold.....	Maximum... 36	40	34	44	40	45	51	41	44	42	45	50	53	64	56	47	39	38	43	50	55	43	56	55	51	39	40	43	55	50	52	46.6
	Minimum... 15	31	25	25	25	29	27	25	23	27	26	23	28	40	33	28	26	22	20	24	23	33	29	48	39	22	24	26	25	32	22	27.3
Hammouton.....	Maximum... 39	42	34	38	42	47	44	34	41	46	48	55	54	66	58	42	40	43	41	48	57	44	62	58	54	38	38	41	54	55	54	47.0
	Minimum... 9	28	26	20	21	21	35	29	21	24	26	24	28	43	39	31	32	31	29	29	30	32	28	41	28	28	26	26	34	35	32	28.6
Hightstowu.....	Maximum... 36	39	38	36	40	46	42	37	42	43	47	50	56	62	57	50	39	39	43	52	55	45	56	54	55	38	40	45	54	53	51	46.5
	Minimum... 11	29	25	25	23	29	26	25	23	26	24	24	24	40	32	25	27	21	21	21	27	32	28	47	37	23	23	26	28	35	29	26.6
Indian Mills.....	Maximum... 37	42	35	37	42	45	42	37	42	44	47	51	54	64	57	46	40	38	43	48	55	44	59	56	55	39	41	44	56	52	51	46.5
	Minimum... 6	30	25	25	25	27	25	22	21	24	21	20	19	42	28	25	27	19	15	16	24	33	25	49	39	27	18	27	27	34	17	25.2
Jersey City*.....	Maximum... 31	36	33	34	39	45	41	33	39	40	42	46	46	58	51	41	34	37	42	42	48	41	52	50	47	30	36	40	49	42	46	41.0
	Minimum... 20	28	26	26	26	32	29	24	25	30	32	42	37	28	24	25	25	24	25	25	34	35	32	46	27	20	24	26	32	32	26	29.6
Lakewood.....	Maximum... 37	41	40	38	41	48	43	36	43	44	45	50	52	65	58	47	39	40	43	46	55	50	54	59	52	42	41	45	57	53	50	46.9
	Minimum... 10	32	26	26	27	30	27	25	28	25	23	22	40	32	29	28	22	18	20	28	34	27	36	40	27	25	30	28	35	22	27.4	
Lambertville.....	Maximum... 31	40	35	37	41	45	41	36	41	45	49	51	56	65	56	52	38	36	45	54	55	48	58	53	55	35	41	48	49	41	46.2	
	Minimum... 23	31	27	27	31	33	24	24	25	23	38	31	41	30	25	28	20	18	20	25	34	25	48	25	28	26	26	30	34	31	18	27.8
Layton.....	Maximum... 34	38	35	35	38	40	38	41	38	36	44	47	49	61	60	50	37	35	47	51	54	46	54	51	53	32	37	41	46	46	50	44.0
	Minimum... 0	29	25	22	21	33	28	19	21	22	30	24	36	28	34	18	15	13	15	22	32	21	43	32	19	20	11	19	32	9	23.3	
Little Falls /.....	Maximum... 40	39	34	37	41	47	41	40	41	42	46	50	55	64	57	44	39	39	46	49	55	44	56	56	50	39	39	46	51	47	53	46.0
	Minimum... 10	28	26	26	27	34	30	25	26	29	32	23	23	39	36	26	25	22	24	23	28	36	29	43	45	21	25	25	32	32	21	28.1
Long Branch*.....	Maximum... 36	41	35	37	40	48	42	35	42	43	48	51	66	53	43	40	39	44	46	50	44	53	55	50	36	40	42	56	45	43	44.8	
	Minimum... 17	33	27	26	26	30	29	29	27	29	29	41	52	62	54	39	38	38	43	51	55	42	52	51	47	32	38	43	48	43	51	43.1
Long Valley /.....	Maximum... 34	36	30	35	40	43	39	35	39	40	44	41	52	62	54	39	38	38	43	51	55	42	52	51	47	32	38	43	48	43	51	43.1
	Minimum... 5	27	24	21	24	33	26	21	18	24	30	25	18	42	32	21	20	19	17	18	24	32	28	41	43	22	20	22	22	30	19	24.9
Millville.....	Maximum... 38	42	37	37	41	45	43	35	43	42	48	50	53	65	55	43	39	38	41	45	54	46	57	57	56	39	40	43	57	47	50	46.0
	Minimum... 16	28	27	26	28	27	25	26	25	26	23	25	20	30	30	30	25	25	18	21	25	33	30	46	35	29	27	31	29	36		

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION

A. E. WHITE.

TRENTON, N. J.

VOL. LII.

APRIL 1947

No. 4

GENERAL SUMMARY

The first half of April averaged considerably warmer than normal, but the latter half was colder than normal. The month averaged approximately 1° above normal. There was no extended warm period. The 6th and 30th were the two warmest days with most stations registering 80° or above on one or the other. The 1st was the coldest morning in most localities with temperatures generally in the twenties and down to 18° at two stations. Heavy frost occurred on several mornings during the last ten days of the month.

There was measurable rainfall on an average of twelve days throughout the State. The State average of 4.33 inches was 20 percent greater than normal and the most for any month since August, 1946. Rains were frequent with not more than three or four consecutive days without rain in any locality. Monthly amounts were greatest in the northern part of the State. There was no snowfall. At the close of the month, the soil was well supplied with moisture. Much farm work was accomplished, but vegetation was somewhat retarded due mainly to the cold weather of February and March.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 44 stations, was 50.5°, which was 0.7° above normal. The highest temperature was 87° at Runyon on the 6th, and the lowest, 18°, at Layton on the 4th. The highest monthly mean temperature was 54.4° at Bridgeton, and the lowest, 46.0° at Runyon. The temperature departure from the normal for the year 1947, to date, for the State is +0.3°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 60 stations, was 4.33 inches, which was 0.72 inch above normal. The average total snowfall at 30 selected stations was 0.0 inch, which was 1.2 inches below normal. The greatest monthly precipitation was 6.58 inches at Sussex, and the least, 2.61 inches at Pemberton. The greatest amount of precipitation in any 24 consecutive hours was 2.80 inches at Sussex on the 4-5th. The average for the Highlands was 5.12 inches; for the Red Sandstone Plain, 4.87 inches; for the Southern Interior, 3.58 inches; and for the Sea Coast, 4.17 inches. The precipitation accumulated departure from the normal for the year 1947, to date, by sections, is: the Highlands, +0.28 inch; Red Sandstone Plain, -1.69 inches; Southern Interior, -2.53 inches; Sea Coast, -2.29 inches.

DATES OF MISCELLANEOUS PHENOMENA.

THUNDERSTORMS: 12, 25, 30. HEAVY FOG: 2, 3, 5, 6, 11, 12, 15, 16, 17, 24.
SLEET: 21, 25. HAIL: 26.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

JUL 31 1917

UNIVERSITY OF ILLINOIS

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.51	10	29.54	16	17.9	49	ne.	21	81	72	81	64	481
Long Branch.....	30.50	10	29.53	16	13.4	38	nw.	7	78	62*	72	60	457
Newark.....	30.49	10	29.52	16	.....	52	ws.	27	72	54	67	.....	444
Trenton.....	30.50	10	29.55	16	10.8	30	s.	27	73	56*	.....	57	408

* Noon

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	48.4	88	26	2.79	.....	.....	.....	.....	.....
1886.....	50.6	86	27	3.40	.....	.....	.....	.....	.....
1887.....	47.3	87	16	2.70	.....	7	.....	.....	.....
1888.....	47.9	92	22	3.28	.....	9	.....	.....	.....
1889.....	51.2	83	25	5.32	.....	12	.....	.....	.....
1890.....	50.4	86	21	2.65	.....	8	.....	.....	.....
1891.....	52.0	88	20	2.19	.....	8	13	11	6
1892.....	49.3	87	19	2.49	.....	8	9	13	8
1893.....	49.2	82	19	5.21	.....	11	9	10	12
1894.....	50.3	88	10	3.09	.....	9	12	9	9
1895.....	49.1	89	19	4.88	T.	10	11	7	12
1896.....	52.4	98	12	1.35	3.1	7	13	10	7
1897.....	50.4	89	19	3.79	T.	9	14	11	5
1898.....	47.8	81	13	3.74	2.9	11	8	11	11
1899.....	49.9	88	18	1.73	T.	4	16	10	4
1900.....	50.8	82	18	2.29	T.	6	14	9	7
1901.....	48.3	89	23	6.31	0	12	8	7	15
1902.....	50.2	93	20	3.62	0	9	10	11	9
1903.....	50.9	92	18	3.97	0	9	13	7	10
1904.....	46.7	85	16	3.42	0.1	10	9	12	9
1905.....	49.9	84	18	2.88	0.1	10	12	11	7
1906.....	51.2	87	17	3.64	T.	8	15	10	5
1907.....	45.2	83	19	3.78	4.8	11	11	9	10
1908.....	51.2	93	13	2.72	T.	11	14	9	7
1909.....	50.2	88	17	5.97	0.8	13	10	11	9
1910.....	53.5	88	20	5.34	0	12	9	11	10
1911.....	47.4	88	14	4.11	2.6	11	10	10	10
1912.....	50.4	82	18	3.56	0	14	9	10	11
1913.....	52.1	89	19	5.78	T.	11	14	7	9
1914.....	48.4	89	16	3.67	0	11	13	10	7
1915.....	54.4	96	20	2.71	11.5	9	14	10	6
1916.....	48.2	85	21	3.32	4.4	13	10	9	11
1917.....	48.8	88	21	2.39	4.7	9	15	8	7
1918.....	49.8	81	22	4.05	2.6	12	11	8	11
1919.....	49.3	85	15	3.06	T.	10	13	7	10
1920.....	48.0	85	13	4.50	T.	13	12	9	9
1921.....	56.3	87	20	3.57	0.4	11	13	6	11
1922.....	51.0	89	18	2.55	T.	10	15	7	8
1923.....	50.0	91	3	3.55	0.5	9	16	6	8
1924.....	48.0	81	18	6.15	6.6	11	15	6	9
1925.....	51.4	88	15	2.40	0	9	15	7	8
1926.....	46.4	87	14	2.05	T.	8	13	10	7
1927.....	47.5	93	17	2.42	0.3	9	14	7	9
1928.....	47.4	85	16	5.26	0.9	12	12	8	10
1929.....	51.1	94	25	6.43	T.	15	10	5	15
1930.....	47.6	79	18	2.34	T.	9	13	7	10
1931.....	49.8	80	20	2.85	T.	9	15	6	9
1932.....	48.3	82	18	2.71	0.1	7	15	7	8
1933.....	50.4	85	20	4.84	0.2	11	12	7	11
1934.....	49.4	85	21	3.89	T.	13	15	6	9
1935.....	48.7	91	22	2.27	0.3	10	10	8	12
1936.....	48.0	90	19	3.23	0.1	12	11	8	11
1937.....	49.3	85	16	4.64	T.	12	11	9	10
1938.....	53.0	94	12	2.82	2.8	9	14	8	8
1939.....	48.3	89	20	5.12	0.1	14	9	8	13
1940.....	45.5	79	15	5.62	2.2	12	9	8	13
1941.....	55.4	96	19	2.32	0	5	19	6	5
1942.....	53.1	95	18	1.39	1.6	4	15	8	7
1943.....	45.5	81	11	2.82	T.	11	12	9	9
1944.....	47.9	82	6	5.45	3.5	13	10	8	12
1945.....	54.5	90	20	3.28	T.	11	12	8	10
1946.....	50.1	86	19	1.51	T.	9	13	7	10
1947.....	50.5	87	18	4.33	0	12	12	8	10
Period	49.8	98	3	3.61	1.2	10	12	9	9

Climatological Data for April 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City	Atlantic	8	74	48.8	+1.0	67	7	36	4	4.16	+1.17	1.27	12	0	13	6	9	15	s.	U. S. Weather Bureau.
Belleplain	Cape May	49	53	52.0	+1.7	80	6	22	4	4.08	+0.48	0.98	12	0	11	11	10	9	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	6	50.4	.....	80	30	29	1	4.12	.....	1.25	2	0	12	7	14	9	se.	City Water Dept.
Belvidere	Warren	289	55	50.4	+0.5	80	30	29	1	5.47	+1.76	1.63	4-5	0	12	14	2	14	.....	Miss C. S. Hixson.
Berlin, 1 mile W.	Camden	70	6	50.4	.....	84	30	29	1†	3.00	.....	0.70	16	0	12	18	4	8	s.	Samuel H. McCulley.
Boonton	Morris	280	57§	47.2	-1.1	77	11†	26	1†	4.16	+0.44	1.57	6	0	14	16	4	10	ne.	J. C. Water Works.
Bridgeton	Cumberland	30	64	54.4	+2.0	84	30	29	1†	3.92	+0.52	0.95	16	0	10	18	5	7	ne.	Bennett K. Matlack.
Brooklawn	Camden	30	6	54.4	.....	84	30	29	1†	2.69	.....	0.72	16	0	8	.....	.....	.....	.....	C. D. Scott.
Burlington	Burlington	12	61§	52.4	+0.2	75	6†	27	1	2.92	+0.82	1.03	2	0	8	16	8	6	w.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	17	48.8	+1.3	80	30	22	1	5.28	+1.39	1.40	2	0	14	15	5	10	w.	N. J. Dept. of Conservation
Cape May	Cape May	17	59	51.4	+1.4	75	19	30	1	3.71	+0.61	0.90	12†	0	9	12	11	7	se.	Richard F. Umfrid, Jr.
Charlotteburg††	Passaic	760	55	48.0	+1.1	78	30	19	4	4.63	+0.59	2.36	4-5	0	14	2	5	23	w.	Newark Water Dept.
Chatham	Morris	185	43	52.0	.....	82	6	23	1†	4.70	+0.54	1.26	4-5	0	13	16	5	9	.....	Edward P. Molitor.
Chatsworth	Burlington	90	7	52.8	.....	82	6	23	1†	3.01	.....	0.87	16	0	9	10	12	8	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	34	53.4	+2.2	82	6	28	1	3.08	-0.52	0.89	15-16	0	14	14	8	8	sw.	Harry P. Campbell.
Clinton	Hunterdon	300	4	51.6	.....	81	12†	26	1	4.05	.....	1.32	4-5	0	16	16	1	13	sw.	L. W. Klockner.
Culvers Lake††	Sussex	760	46	51.6	.....	81	12†	26	1	5.20	+1.71	2.40	4-5	0	12	.....	.....	.....	.....	L. S. Depue.
Elizabeth	Union	33	68	51.6	+0.4	81	12†	26	1	5.11	+1.43	1.74	4-5	0	14	15	5	10	ne.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	134	61§	51.7	+1.2	80	6	26	1	4.33	+0.71	1.19	4-5	0	13	16	6	8	sw.	Hiram E. Deats.
Freehold	Monmouth	194	43§	51.3	+1.3	81	30	28	1	4.17	+0.49	1.24	2	0	13	13	8	9	sw.	Moreau Plant Co.
Hammondtown	Atlantic	96	41§	53.2	+1.9	82	30	29	1	3.73	-0.09	1.18	14	0	7	15	5	10	sw.	J. G. Wilson.
Hightstown	Mercer	100	54	51.0	+0.7	80	30	25	1	4.16	+0.34	1.43	2	0	10	10	11	9	sw.	James R. Pickering
Indian Mills††, 2 mi. W.	Burlington	100	58	52.0	+1.4	82	30	23	1†	2.71	-0.90	0.55	16	0	13	11	11	8	s.	Edward Entwistle.
Jersey City	Hudson	135	49	48.1	-2.4	76	6†	30	22	5.14	+1.32	1.66	4-5	0	13	13	5	12	sw.	J. C. Water Dept.
Lakewood	Ocean	54	43	51.6	+1.8	82	30	23	1	3.16	-0.70	0.79	4-5	0	10	14	8	10	sw.	R. W. Holman.
Lambertville	Hunterdon	75	60	51.4	+1.3	80	30	25	1	3.63	-0.10	1.07	1-2	0	15	14	8	8	w.	George Bailey.
Layton††, 3 miles NW.	Sussex	480	46	47.7	+0.8	80	6†	18	4	5.19	+1.66	2.22	4-5	0	14	13	2	15	sw.	A. M. Depue.
Little Falls	Passaic	157	44	49.6	-0.1	80	6†	27	1†	5.07	+0.85	2.68	4-5	0	15	10	12	8	nw.	Passaic Valley Water Co.
Long Branch	Monmouth	34	39	50.0	+1.5	80	6†	29	4	4.23	+0.01	1.16	2	0	10	11	8	11	s.	Storm Warn. Display Sta.
Long Valley	Morris	660	17	47.9	+0.2	77	6†	23	1	3.96	+0.31	1.08	5	0	11	11	11	8	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	6	51.6	.....	81	6	25	4	2.81	.....	0.66	16	0	13	15	7	8	sw.	David Griscom.
Mays Landing	Atlantic	50	3	51.6	.....	81	6	25	4	4.22	.....	0.93	16-17	0	14	18	3	9	se.	Elmer Earle.
Millville, 2 mi. SW.	Cumberland	60	7	52.4	.....	81	6	25	4	3.35	.....	0.77	16	0	12	4	12	14	se.	Millville Airport.
Moorestown	Burlington	62	84	51.5	+1.0	80	30	28	1	2.95	-0.46	0.67	16	0	12	.....	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	400	6	49.1	.....	77	30	23	1†	4.79	.....	2.03	4-5	0	14	17	1	12	.....	James C. Long.
Newark	Essex	11	93	50.2	0.0	80	30	31	1	5.31	+1.59	1.77	4-5	0	14	6	8	16	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	99	93	51.4	+1.6	80	6†	26	1	4.18	+0.54	1.44	2	0	12	17	3	10	sw.	N. J. Experiment Station.
New Milford††	Bergen	12	29	50.2	.....	80	30	22	1	6.44	+2.83	2.38	5	0	17	.....	.....	.....	.....	Hackensack Water Co.
Newton	Sussex	769	64	47.0	-1.0	78	6	23	1	4.08	+0.72	0.82	6	0	14	8	14	8	nw.	Charles M. Wheeler.
Orange††	Essex	140	7	50.2	.....	80	30	30	1	5.79	.....	1.86	5	0	12	.....	.....	.....	.....	County Engineer.
Paterson	Passaic	100	76	50.2	-0.4	80	30	30	1	5.82	+2.23	2.84	4-5	0	12	9	11	10	sw.	J. W. Cook.
Pemberton	Burlington	60	18	52.4	+0.7	82	30	24	1	2.61	-0.62	0.66	2	0	14	16	6	8	sw.	Charles A. Doehlert.
Phillipsburg	Warren	182	64§	47.4	-2.1	77	6†	23	1	5.82	+2.48	1.70	30	0	13	12	8	10	sw.	Town Engineer.
Plainfield	Union	120	59	50.4	+0.8	80	6†	27	1	4.75	+0.98	1.58	2	0	12	10	12	8	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	6	50.4	.....	80	6†	27	1	4.21	.....	1.50	2	0	8	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††	Atlantic	8	49	50.0	+0.9	80	12	20	4	3.65	+0.11	1.11	16	0	16	7	8	15	s.	N. J. Dept. of Conservation.
Railway	Union	20	8	50.0	.....	80	12	20	4	4.94	.....	1.50	2	0	11	13	8	9	se.	Louis Fontenelli.
Ridgefield	Bergen	80	30	49.6	+0.7	80	6†	28	4	5.65	+2.28	2.26	5	0	12	9	8	13	se.	George P. Kirsten.
Runyon††	Middlesex	18	24	46.0	-2.4	87	6	18	1	4.49	+0.76	1.29	4-5	0	10	19	6	5	w.	N. J. Dept. of Conservation
Rutherford	Bergen	51	3	51.0	.....	80	6†	30	1†	6.15	.....	2.27	4-5	0	14	6	7	17	sw.	Harold Scott.
Sandy Hook	Monmouth	22	49	50.2	+1.9	76	12	22	22	4.63	+1.01	1.56	2-3	0	12	4	17	9	.....	U. S. Coast Guard.
Somerville	Somerset	65	64	51.0	+1.4	81	30	24	1	4.38	+0.85	1.48	2	0	11	12	5	13	e.	William E. Haver.
Sussex	Sussex	450	52	50.1	+1.5	85	13	25	1	6.68	+3.10	2.80	4-5	0	15	9	4	17	w.	Marshall Hunt.
Toms River	Ocean	33	26	50.1	.....	85	13	25	1	3.12	-0.77	0.66	16	0	11	.....	.....	.....	.....	Robt. F. Snyder.
Trenton	Mercer	56	75	51.8	+2.0	79	6	33	1	4.63	+1.69	1.88	30-1	0	11	6	11	13	s.	U. S. Weather Bureau.
Trenton No. 2	do.	105	17	51.8	+1.2	81	30	29	1	4.90	+1.26	1.26	2	0	11	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton	Union	23	54	51.8	.....	81	30	29	1	4.47	.....	1.65	5	0	10	13	7	10	w.	John H. Brown.
Vineland	Cumberland	110	67	51.8	.....	81	30	29	1	3.01	-0.43	0.89	16	0	12	15	8	7	s.	Robert Jones.
Westfield	Union	135	8	51.8	.....	81	30	29	1	4.47	.....	1.65	5	0	10	13	7	10	w.	Town Engineer.
Woodcliff Lake††	Bergen	103	29	51.4	.....	80	30	30	3	5.72	+2.05	2.22	5	0	18	.....	.....	.....	.....	Hackensack Water Co.
Woodstown, 2 mi. N.	Salem	16	0	51.4	.....	80	30	30	3	3.12	.....	1.05	17	0	12	11	6	13	.....	J. De Geus.
New York, N. Y.	.....	10	77	49.8	-0.4	76	6	34	1	5.51	+2.28	1.88	5	0	11	5	12	13	s.	U. S. Weather Bureau.
Philadelphia, Pa.	.....	26	77	53.6	+1.5	81	6	35	22	6.76	+3.71	4.06	30-1	0	12	6	13	11	s.	U. S. Weather Bureau.
For the State	.....	.....	.....	50.5	+0.7	87	6	18	1†	4.33	+0.72	2.80	4-5	0	12	12	8	10	sw.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for April 1947

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast		.11	.01	T.	.07	T.			.62			1.27		.49		.88	T.				.20	.01				.22	.26	.01			.01	4.16
Bass River	do.	.15	.15	T.	T.	.26	T.			.32	.20	T.	.61	.15	.18		.70					T.	.13				T.	.59		.34	.31		4.09
Belleplain	Tuckahoe		.18			.12				.68			.98		.20	.23	.95					.25	.05				.09	.35					4.08
Belmar ²	Coast	T.	1.25	T.	.01	.72			T.	.31			.02		.23	T.	.60	T.				.15	T.	T.		.13	.01	.05			.64		4.12
Belvidere	Delaware		1.32	.09		1.63									.26		.63		T.	T.		.04	.38	.06		T.	.27	.23	.10		.50		5.50
Berlin ³	Mullica		.14	.28		.14	.10			.37	.12		.10	.15		.50		.70					.15				.25			T.		T.	3.00
Boonton ³	Passaic		.12	.30		.62	1.57			.10	.06		.06			.08		.41			T.	.02		.25		T.	.45		.09		.03		4.16
Bridgeton	Delaware		.32			.10	T.			.81			.60			.24		.95	T.				.05	.12		T.	.69		.04				3.92
Brooklawn	do.		.63	.18		.16				.40			.23		.72								.26	.11		T.							2.69
Burlington	do.			1.03		.54				.20			.05	.07	.13	.70	T.					.20	T.						T.				2.92
Canoe Brook ³	Passaic		.29	1.40		.59	1.25			.15	.05		.05		.07		.58				.01			.39			.39		.04		.02		5.28
Canton ³	Delaware		.06	.39		.06	.01			.60			.13		.26	.24	.70					.04	.05				.05	.33					2.92
Cape May ¹	Coast		.05							.80			.90		.42	.15	.90																3.71
Charlotteburg	Passaic		.50	.17		2.33	.03			.09			.02		.03	.31	.01			T.	T.	.22	.01				.17	.27		.17			4.70
Chatham ³	do.	.25	1.10		.48	1.26				.11	.08		.05		.05		.49			T.												.01	4.70
Chatsworth	Coast		.30	T.		.27				.44			.62				.87																3.01
Clayton	Delaware		.08	.47		.23	.02			.49			.21		.23	.07	.82						.06	.01			.14	.24		.01			3.08
Clinton	Raritan		.93	.10		1.32				.22			.07		.08	.02	.37			.02			.44	.02			.06	.25	.04	.12		.04	4.05
Culvers Lake	do.		.70			2.40				.05			.07		T.	.05	.55				.08	.58				T.	.23	.20	.05		.24		5.20
Elizabeth	Coast		.84	.81		1.74				.22			.02		.08	.05	.62	T.	T.		T.	.30	.07		T.		.07	.21	.01	.07		T.	5.11
Essex Fells ³	Passaic		.22	.93		.59	1.86		10												T.		.39				.38						4.57
Flemington	Raritan		.92	.62		1.19				.26			.06		.09	.02	.52		.01			.32					.07	.15	T.		.10		4.33
Freehold	do.		.96	.28		1.00				.38			.16		.12	.14	.57					.26	.05				.04	.16		.05			4.17
Hammonton	Mullica			.61						.21		.31			1.18	T.	T.	.72					.19				.51						3.73
Hightstown	Raritan		1.43	T.		1.03				.32			.04		.26	T.	.55	.01	T.	T.		.30	T.				.05	.17	T.			T.	4.16
Indian Mills	Mullica		.38	.12		.19				.42			.20		.25	.05	.55					.12	.02				.03	.36	T.		.02		2.71
Jersey City ²	Coast		1.85	.04	*	1.65				.16			.03		.12		.14					.84				.34	.04	.12				.31	5.14
Lakewood	Metedeconk		.72			.79				.39			.21		.17	.06	.60					.03	.08				.11						3.16
Lambertville	Delaware		.64	.43		.78				.31			.03		.18	.02	.52	.01	T.			.16	.44	.02			.05	.15	.02	.03		T.	3.63
Layton	do.		*	.50		2.22	.02			.16			.15		.02		.53		.02			.16	.66				*	.16	.15		.44		5.19
Little Falls ³	Passaic		.18	.88		.84	1.84			.09	.05		.05		.04		.42				.02		.25				.01	.35		.04		.01	5.07
Long Branch ^{2†}	Coast		1.16		T.	.77				.30			.10		.24		.58			T.		.28					.19	.06			.55		4.23
Long Valley ³	Raritan			.82		.50	1.08			* .08					.15		.35			.05			.37				.40		.16		T.		3.96
Manville ²	do.		1.42		T.	1.34				.20			T.		.14		.67					.50				.15	T.	.03		.75		5.20	
Marlton	Delaware		.45	.15		.20				.45			.12		.23	.08	.66					.27	.05				.02	.12					2.81
Mays Landing	Gt. Egg Harbor		.34	.13		.11	T.			.64			.65		.20	.18	.88	.05				.21	.13				.05	.62		.03		T.	4.22
Midland Park ²	Passaic		.95		.01	2.60				.11		.02			.04		.32				.04						.46		.06				4.83
Millville (Arpt.) ^{2†}	Maurice		.34		.01	.06	T.			.66			.52		.43		.77					.09	.06				.36	.04	T.		.01		3.55
Moorestown ³	Delaware		.51	.35		.11	.18			.38	.01		.09		.26		.67					.23	T.				T.	.15		.01		T.	2.95
Morris Plains	Passaic		.70	.40	T.	2.03				.18		T.	.06		.03	.04	.43			T.	T.	.34	.02				.15	.24	.14		.03		4.79
Newark ¹	Coast		1.26	.01	.02	1.75				.19			.02		.08		.59		.01	T.	T.	.32					.25	.04	.05		.72		5.31
New Brunswick	Raritan		.81	.63		1.14				.24			.06	.11	.56		.48					.25	.11				.04	.17	T.	.06			4.18
New Milford ^{2†}	Hackensack	.03	.99	.02	.02	.38	.02			.06			.02		.02		.48	.02				.22					.38	.03	.04		.03	1.68	6.44
Newton ³	Delaware		.07	.70		.67	.82			.08			.36		.10		.41			.03	.05		.04	.20			.44		.11		T.		4.08
Orange ¹	Passaic		1.27			1.86				.17			.03		.06	.01	.49					.33					.31	.02	.03			1.21	5.79
Paterson ²	do.		.97		.05	2.29				.13			.05			.40		T.		.01	.02	.15				T.	.36		.05		1.34		5.82
Pemberton	Delaware		.50	.16		.26				.39	.01		.20		.08	.20	.55	T.				.07	.03				.02	.11		.03			2.61
Phillipsburg	do.		.85		.03	1.19	.05			.33		T.	.09		.09		.60		T.	T.		.45				T.	.25	.15	.04			1.70	5.82
Plainfield	Raritan		1.54	.04		1.53	.02			.24			.02		.12		.57		T.			.41					.05	.15	.06				4.75
Plainsboro	do.		1.50			.94	.04			.31					.28		.66					.28	T.				.20						4.21
Pleasantville ³	Coast		.05	.05		.02	.02			.47	.08		.68	.16		.38	.01	1.10					.16				.04	.40		.02		.01	3.65
Rahway ^{2†}	Rahway		1.50			* 1.40				.21			.10		.53							.33					*	.18	.04			.65	4.94
Ridgefield	Hackensack		1.32	.08		2.26				.20			.03		.08		.69					.34					.38	.04	.05		.18		5.65
Ringwood ³	Passaic		.12	.79		1.18	1.17			.07			.04		.06	T.	.28			.01	.09	.02	.15				.02	.44</					

Daily Temperatures for April 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum... 48	53	47	47	52	64	67	47	50	51	56	67	60	47	56	56	57	54	65	60	45	43	48	58	56	61	58	46	53	60	54.4	
	Minimum... 39	45	39	36	44	47	44	37	43	39	46	51	46	44	44	48	46	44	50	44	39	38	40	44	43	43	45	36	42	52	43.3	
Belleplain.....	Maximum... 55	64	57	54	62	80	72	59	52	56	74	78	63	50	66	61	62	67	78	77	51	45	52	74	60	60	73	65	65	68	63.3	
	Minimum... 23	46	45	22	46	56	55	27	40	30	43	55	46	40	42	42	49	37	44	48	41	35	29	38	39	41	42	30	36	55	40.7	
Belvidere.....	Maximum... 58	53	61	56	50	79	69	60	54	64	75	77	66	57	70	61	53	61	60	51	40	56	61	71	56	62	71	55	70	80	61.9	
	Minimum... 29	42	40	30	40	46	40	34	45	30	47	64	39	42	32	42	41	31	39	39	35	30	31	42	43	39	43	32	30	50	38.9	
Boonton.....	Maximum... 56	47	57	55	58	76	56	59	48	51	77	74	63	52	66	49	54	62	58	47	41	54	55	69	52	59	68	53	66	77	58.6	
	Minimum... 26	30	34	26	28	41	51	35	33	36	40	45	39	38	35	43	42	30	38	39	38	31	29	37	42	39	40	30	28	31	35.8	
Bridgeton.....	Maximum... 60	61	56	60	68	83	75	61	51	64	78	79	65	56	69	64	58	69	78	76	58	53	61	79	67	61	75	68	69	84	66.9	
	Minimum... 29	45	42	29	42	56	52	34	41	34	45	60	45	41	43	47	47	38	45	46	39	34	32	40	40	41	46	35	52	52	41.8	
Burlington.....	Maximum... 61	62	61	60	62	75	57	58	59	66	74	73	64	61	67	60	55	65	69	59	50	54	62	70	63	62	71	58	65	75	63.3	
	Minimum... 27	43	41	31	42	54	43	34	36	37	36	58	42	44	50	46	40	38	47	48	37	34	46	39	40	43	43	34	39	54	41.5	
Canoe Brook.....	Maximum... 56	46	60	55	63	79	60	60	51	60	78	78	63	57	69	50	56	64	64	49	43	54	52	74	51	61	73	55	69	80	61.0	
	Minimum... 22	35	38	23	37	42	52	34	39	27	41	57	38	38	33	41	41	26	32	41	37	31	27	38	48	49	41	26	25	45	36.5	
Cape May.....	Maximum... 52	55	50	50	52	70	64	62	52	62	66	62	60	48	58	62	59	62	75	61	60	48	49	67	60	58	68	51	59	65	58.2	
	Minimum... 30	49	48	36	44	48	53	40	42	41	46	52	46	43	45	50	42	53	57	51	35	37	35	43	48	43	46	38	42	51	44.5	
Charlotteburg.....	Maximum... 54	52	55	54	51	77	69	58	57	61	73	76	68	50	64	55	50	60	59	54	39	52	55	72	71	58	70	52	66	78	60.3	
	Minimum... 21	39	33	19	37	46	46	31	36	28	42	62	36	38	39	44	38	27	32	37	34	26	24	36	43	37	38	29	23	50	35.7	
Chatsworth.....	Maximum... 56	65	59	57	67	82	76	62	49	59	75	80	77	53	67	62	58	66	75	68	58	50	57	76	73	59	74	71	69	81	66.0	
	Minimum... 23	45	40	23	42	54	55	28	40	27	43	60	42	37	36	44	45	31	48	43	39	30	30	40	49	40	42	31	28	52	39.6	
Clayton.....	Maximum... 59	56	62	58	65	82	73	60	52	62	76	78	72	58	68	62	59	67	67	69	52	54	62	75	70	60	73	68	68	80	65.7	
	Minimum... 28	41	45	29	41	63	48	33	40	31	45	61	43	41	38	46	47	35	46	45	39	33	32	39	46	40	42	33	35	52	41.2	
Elizabeth.....	Maximum... 57	56	57	54	50	80	76	60	54	61	77	81	73	52	71	68	58	64	67	60	48	53	53	73	72	63	74	68	69	81	64.3	
	Minimum... 26	41	39	28	41	44	52	34	40	30	40	61	40	43	36	45	42	29	35	42	35	32	33	40	44	39	40	29	30	51	38.7	
Flemington.....	Maximum... 58	53	58	57	57	80	78	63	58	64	75	78	74	60	71	62	55	66	64	56	45	54	63	72	71	63	73	58	69	79	64.5	
	Minimum... 26	41	40	29	41	45	49	33	40	30	41	63	40	40	34	45	43	31	38	41	38	32	31	39	45	39	44	31	29	50	38.9	
Freehold.....	Maximum... 56	64	58	57	59	77	75	59	48	58	75	78	72	53	67	57	55	65	68	56	44	49	52	73	69	60	71	57	69	81	62.7	
	Minimum... 28	43	39	30	40	54	51	30	40	32	41	61	41	40	39	44	44	34	41	44	37	33	31	40	41	40	42	34	38	51	39.9	
Hammonton.....	Maximum... 56	65	58	60	69	81	73	65	54	61	72	64	66	62	70	70	55	69	78	60	52	51	58	76	75	65	73	68	70	82	65.9	
	Minimum... 29	36	40	38	54	62	43	32	38	43	58	36	42	36	48	46	40	38	39	38	38	36	31	40	36	39	40	34	38	47	40.5	
Hightstown.....	Maximum... 59	60	57	57	58	77	75	58	53	61	75	77	66	55	66	64	56	64	68	55	44	50	56	71	69	59	71	56	67	80	62.8	
	Minimum... 25	41	39	28	40	49	49	32	39	30	41	61	40	37	36	44	44	34	45	43	37	33	30	38	45	40	43	29	33	48	39.1	
Indian Mills.....	Maximum... 58	63	56	57	68	81	75	61	49	60	76	79	69	50	68	58	55	66	77	67	47	50	58	76	70	60	73	57	68	82	64.5	
	Minimum... 23	45	41	23	42	58	48	30	40	27	42	62	40	36	36	44	45	31	48	44	38	34	28	39	47	40	42	31	32	52	39.6	
Jersey City*.....	Maximum... 44	46	52	47	50	76	62	48	46	50	67	76	61	47	66	51	56	60	58	50	39	47	43	69	54	57	68	49	65	74	55.9	
	Minimum... 23	43	36	32	41	49	40	34	40	36	44	57	40	43	42	44	42	40	48	39	32	30	36	42	40	38	43	33	38	53	40.3	
Lakewood.....	Maximum... 56	63	56	54	59	81	75	57	47	57	76	79	73	50	69	55	57	66	73	55	45	48	51	78	72	60	74	70	68	82	63.5	
	Minimum... 23	43	40	25	40	52	51	31	40	30	42	60	42	38	37	45	45	35	47	43	37	34	31	41	45	41	43	31	29	51	39.7	
Lambertville.....	Maximum... 58	57	57	53	50	79	78	54	54	64	74	78	73	60	68	67	56	66	65	55	44	52	61	74	69	61	74	55	68	80	63.5	
	Minimum... 25	42	41	29	42	48	49	34	40	29	43	63	41	38	36	45	41	31	38	43	38	32	29	41	45	39	45	32	31	53	39.4	
Layton.....	Maximum... 57	66	60	57	48	80	70	60	48	63	68	80	64	54	65	52	53	60	57	50	40	52	60	70	53	62	70	57	68	78	60.7	
	Minimum... 21	40	38	18	39	39	42	32	38	24	44	60	37	37	32	38	37	22	32	35	32	24	25	40	35	39	28	22	50	34.7		
Little Falls.....	Maximum... 54	47	56	53	60	80	57	61	53	63	76	77	64	59	69	50	55	64	60	45	43	55	58	74	51	68	72	56	69	80	60.6	
	Minimum... 27	42	37	27	40	44	50	35	40	32	45	62	40	43	36	45	42	31	38	40	38	31	30	40	48	40	42	32	30	50	38.7	
Long Branch*.....	Maximum... 50	61	49	48	58	80	68	50	46	52	68	80	57	47	67	51	51	65	68	52	42	48	48	76	56	58	73	47	64	76	58.5	
	Minimum... 30	43	40	29	41	48	42	35	41	34	45	60	45	41	39	46	44	37	48	42	38	35	38	44	43	41	47	34	36	56	41.4	
Long Valley.....	Maximum... 58	48	58	54	60	77	56	58	48	62	72	75	64	57	67	48	52	62	58	48	38	54	57	71	50	60	70	52	66	77	59.2	
	Minimum... 23	40	37	24	38	48	50	32	38	28	40	61	36	39	37	42	38	25	33	37	30	27	38	45	37	36	28	25	47	36.6		
Millville.....	Maximum... 55	64	63	54	68	81	67	57	51	58	77	78	65	53	67	64	55	67	76	78	45	51	56	75	58	60	73	55	62	78	63.7	
	Minimum... 26	47	39	25	43	57	42	32	41	34	47	55	46	43	43	48	37	37	49	44	36	34	31	43	42	42	34	36	56	41.0		
Moorestown*.....	Maximum... 60	63	55	57	68	79	61	59	49	62	76	77	62	54	67	53	54	65	72	58	41	52	60	72	57	59	64	58	80	62.2		
	Minimum... 28	45	34	30	42																											

51.05
NNS

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION

A. E. WHITE.
TRENTON, N. J.

VOL. LII. MAY 1947 No. 5

GENERAL SUMMARY

The temperature average for May was slightly below normal which was mostly due to the cool weather from the 2d to 10th. Frosts were common from the 8th to 11th and these were generally killing on one or more mornings. Rather heavy damage was done to the strawberry crop in south and central Jersey, which seems to have been the principal frost damage. Temperatures around 20° were registered in the cranberry bogs on the 9th and 10th but serious damage was prevented by flooding the bogs.

This was the wettest May in New Jersey since 1894. Rains were frequent and some were rather heavy. The heaviest single storm was the one which began on April 30th in the late P.M. and ended on May 1st. Several stations recorded 24-hour falls from this storm in excess of 3.00 inches. The greatest monthly amounts were registered in the Delaware Valley drainage area of southwest New Jersey though rainfall was heavy throughout the State. The excessive rainfall interfered with farming operations, especially planting of corn in central and northern counties. Thunderstorms were numerous but no destructive wind storms were reported. Several northern stations reported traces of snow on the 8th, which is very unusual for May in New Jersey.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 44 stations, was 60.1°, which was 0.5° below normal. The highest temperature was 94° at Runyon on the 29th, and the lowest, 18°, at Layton on the 10th. The highest monthly mean temperature was 64.4° at Burlington, and the lowest, 57.0° at 3 stations. The temperature departure from the normal for the year 1947, to date, for the State is +0.1°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 58 stations, was 7.22 inches, which was 3.60 inches above normal. The average total snowfall at 30 selected stations was a trace, which was T. above normal for the month. The greatest monthly precipitation was 9.92 inches at Morris Plains, and the least, 3.77 inches at Belmar. The greatest amount of precipitation in any 24 consecutive hours was 3.82 inches at Brooklawn on April 30th-May 1st. The average for the Highlands was 7.97 inches; for the Red Sandstone Plain, 7.18 inches; for the Southern Interior, 7.20 inches; and for the Sea Coast, 4.56 inches. The precipitation accumulated departure from the normal for the year 1947, to date, by sections, is: the Highlands, +4.62 inches; Red Sandstone Plain, +1.73 inches; Southern Interior, +1.11 inches; Sea Coast, -0.93 inch.

DATES OF MISCELLANEOUS PHENOMENA.

HAIL: 2, 5. HEAVY FOG: 1, 2, 3, 4, 17, 18, 19, 20, 21, 23, 24, 25, 28.
THUNDERSTORMS: 1, 4, 5, 7, 10, 11, 14, 18, 19, 20, 21, 22, 24, 25, 26, 29, 30.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.41	11	29.60	7	15.7	40	ne.	14	83	74	82	64	232
Long Branch.....	30.41	11	29.57	7	13.3	38	w.	7	82	67	76	57	215
Newark.....	30.38	11	29.54	6	.....	36	wnw.	25	76	60	65	.....	207
Trenton.....	30.40	11	29.56	7	9.4	31	sw.	25	78	61	.....	55	186

* Noon

COMPARATIVE DATA FOR MAY

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	57.3	90	29	2.74	0	.....	.....	.....	.....
1886.....	58.8	87	36	6.07	0	.....	.....	.....	.....
1887.....	63.3	94	35	1.37	0	6	.....	.....	.....
1888.....	58.6	90	26	4.92	0	16	.....	.....	.....
1889.....	62.3	94	32	4.09	0	12	.....	.....	.....
1890.....	60.7	87	33	4.24	0	12	.....	.....	.....
1891.....	59.5	93	28	2.97	0	9	11	.....	11
1892.....	60.1	90	30	5.04	0	13	8	13	10
1893.....	59.4	95	29	4.07	0	10	13	8	10
1894.....	61.4	93	30	7.72	0	13	11	9	11
1895.....	60.9	102	28	2.85	0	8	12	12	7
1896.....	65.3	98	29	3.21	0	10	10	12	9
1897.....	60.6	87	29	5.68	0	12	11	12	8
1898.....	58.5	93	29	7.00	0	18	8	8	15
1899.....	61.1	94	29	1.92	0	9	12	12	7
1900.....	60.9	98	26	4.71	0	10	13	7	11
1901.....	58.6	90	29	5.60	0	16	9	9	13
1902.....	60.3	95	29	2.04	0	7	15	11	5
1903.....	62.7	98	21	0.59	0	4	16	10	5
1904.....	62.8	97	31	2.60	0	8	17	9	5
1905.....	61.4	89	22	1.71	0	8	12	11	8
1906.....	61.0	94	24	4.21	0	10	16	8	7
1907.....	55.4	91	22	5.05	0	12	12	9	10
1908.....	61.6	95	29	7.10	0	13	9	10	12
1909.....	60.0	91	27	2.30	0	9	10	11	10
1910.....	60.0	94	27	2.54	0	12	10	10	11
1911.....	64.5	99	22	1.37	0	7	14	11	6
1912.....	62.0	92	31	4.09	0	11	11	11	9
1913.....	60.3	94	25	3.45	0	9	15	7	9
1914.....	63.1	98	30	2.93	0	10	14	9	7
1915.....	58.1	88	30	3.82	0	13	13	7	11
1916.....	61.1	90	33	3.48	0	12	12	11	8
1917.....	54.0	90	25	3.83	0	11	10	10	11
1918.....	64.6	93	31	4.94	0	12	14	10	7
1919.....	60.9	95	31	4.98	0	12	14	6	11
1920.....	57.4	89	26	3.00	0	10	15	8	8
1921.....	60.2	96	32	4.17	0	10	14	7	10
1922.....	63.0	90	23	3.84	0	8	18	6	7
1923.....	59.1	90	25	1.66	0	6	20	6	5
1924.....	56.8	87	25	5.69	0	17	12	7	12
1925.....	57.7	99	23	2.86	0	8	13	11	7
1926.....	59.1	90	26	2.58	0	9	18	9	4
1927.....	58.1	88	30	3.65	0	13	9	10	12
1928.....	58.0	93	27	2.23	0	12	12	9	10
1929.....	59.9	95	26	3.49	0	13	13	8	10
1930.....	62.7	98	31	2.75	0	9	17	7	7
1931.....	60.4	97	21	3.73	0	12	14	6	11
1932.....	60.5	94	29	2.98	0	8	16	8	7
1933.....	63.2	93	32	4.84	0	13	11	8	12
1934.....	62.3	98	28	4.63	0	11	17	6	9
1935.....	57.8	95	27	1.71	0	9	15	7	9
1936.....	63.1	97	28	2.78	0	7	20	7	4
1937.....	62.5	96	28	3.12	0	10	17	9	5
1938.....	59.2	89	26	3.52	0	12	10	9	12
1939.....	63.3	99	25	1.43	0	6	16	8	7
1940.....	59.7	92	28	6.29	0	15	8	9	14
1941.....	62.6	99	23	1.86	0	9	17	9	5
1942.....	64.3	97	25	2.41	0	7	14	9	8
1943.....	61.7	93	24	4.92	0	12	11	9	11
1944.....	65.3	94	28	1.67	0	8	14	9	8
1945.....	58.4	90	29	4.78	0	14	13	7	11
1946.....	60.8	91	26	6.63	0	14	11	8	12
1947.....	60.1	94	18	7.22	T.	15	11	9	11
Period.....	60.6	102	21	3.62	0	11	13	9	9

Climatological Data for May 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy	
Atlantic City.....	Atlantic.....	8	74	57.8	+1.3	78	27	36	9	4.10	+1.05	0.98	25-26	0	14	7	9	15	U. S. Weather Bureau.
Belleplain.....	Cape May.....	49	53	61.5	+0.4	88	20	29	10	6.80	+3.48	1.78	3	0	14	14	11	6	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	6	61.5	.....	.....	.....	.....	.....	3.77	.....	1.74	30-1	0	13	.....	.....	.....	City Water Dept.
Belvidere.....	Warren.....	289	55	60.2	-0.9	90	29	28	10	7.59	+3.91	1.20	30-1	0	18	12	5	14	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	6	61.5	.....	.....	.....	.....	.....	8.86	.....	3.00	30-1	0	12	14	9	8	Samuel H. McCulley.
Boonton.....	Morris.....	280	57	57.0	-2.0	88	29	29	10	8.89	+5.10	2.13	26	0	17	13	0	18	J. C. Water Works.
Bridgeton.....	Cumberland.....	30	64	63.4	-0.2	89	13	33	9†	7.82	+4.32	2.13	30-1	0	12	14	9	8	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	6	61.5	.....	.....	.....	.....	.....	9.43	.....	3.82	30-1	0	17	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	61	64.4	+1.3	90	28†	36	10	8.40	+4.60	2.10	4	0	12	12	9	10	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	17	57.8	-1.2	88	29	27	11	8.17	+4.66	1.66	30-1	0	19	12	1	15	N. J. Dept. of Conservation
Cape May.....	Cape May.....	17	59	60.3	+2.0	83	20	41	8†	5.19	-2.31	2.01	4	0	12	11	15	5	Richard F. Umfrid, Jr.
Charlotteburg††.....	Passaic.....	760	55	58.0	+0.1	86	29	29	10	8.81	+4.89	1.75	24-25	0	18	.....	.....	.....	Newark Water Dept.
Chatham.....	Morris.....	185	43	.....	.....	.....	.....	.....	.....	8.56	+4.84	1.71	30-1	0	17	13	8	10	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	7	62.2	.....	90	13	29	9†	6.66	.....	1.58	30-1	0	13	8	19	4	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	34	62.2	+0.2	89	29	30	10	6.34	+3.15	1.12	29-30	0	17	10	16	5	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	4	.....	.....	.....	.....	.....	.....	7.28	.....	1.78	30-1	0	16	13	4	14	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	46	.....	.....	.....	.....	.....	.....	7.24	+3.83	1.28	5	0	14	.....	.....	.....	L. S. Depue.
Elizabeth.....	Union.....	33	68	61.0	-0.9	92	29	27	10	6.94	+3.21	1.40	30-1	0	18	17	3	11	Union County Park Comm.
Flemington, 2 mi. NE.....	Hunterdon.....	134	61	61.4	-0.2	88	29	29	10	7.45	+3.78	1.94	30-1	T.	15	17	5	9	Hiram E. Deats.
Freehold.....	Monmouth.....	194	43	61.2	-0.8	88	23†	29	10	6.83	+3.23	1.78	30-1	0	15	12	9	10	Moreau Plant Co.
Hammononton.....	Atlantic.....	95	41	62.1	-1.3	90	29	30	10	8.52	+4.67	2.40	3-4	0	11	15	9	7	J. G. Wilson.
Hightstown.....	Mercer.....	100	54	60.2	-0.9	88	29	29	10	7.35	+3.63	1.63	22	0	13	9	13	9	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	58	61.0	-1.0	90	29	26	10	7.44	+4.19	1.28	4	0	13	9	16	6	Edward Entwistle.
Jersey City.....	Hudson.....	135	49	58.3	-3.5	84	13	33	9	3.78	+0.43	0.60	22	0	17	10	7	14	J. C. Water Dept.
Lakewood.....	Ocean.....	54	43	61.1	+0.3	89	13†	30	10	6.96	+3.63	1.81	30-1	0	14	7	13	11	R. W. Holman.
Lambertville.....	Hunterdon.....	75	60	60.8	-0.4	87	13	26	10	7.17	+3.27	1.40	30-1	0	16	16	7	8	George Bailey.
Layton††, 3 miles NW.....	Sussex.....	480	46	57.5	-0.4	86	13†	18	10	7.45	+4.15	1.47	25	T.	15	10	5	16	A. M. Depue.
Little Falls.....	Passaic.....	157	44	59.9	-0.7	90	29	29	10	8.38	+4.57	1.67	30-1	T.	19	10	8	13	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	39	58.4	-0.5	89	13	30	10	4.88	+1.64	1.33	30-1	0	15	10	8	13	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	17	57.0	-2.0	87	29	26	10	9.09	+5.39	1.90	1	0	14	12	9	10	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	6	.....	.....	.....	.....	.....	.....	9.63	.....	3.42	30-1	0	12	10	12	9	David Griscom.
Mays Landing.....	Atlantic.....	50	3	.....	.....	.....	.....	.....	.....	6.73	.....	1.16	1	0	16	16	9	6	Elmer Earle.
Millville, 2 mi. SW.....	Cumberland.....	60	7	61.9	.....	86	13	30	10	7.25	.....	1.72	1	0	12	5	8	18	Millville Airport.
Moorestown.....	Burlington.....	62	84	60.4	-1.0	88	29	33	11	9.34	+5.56	3.71	30-1	0	15	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	6	59.5	.....	88	29	26	10	9.92	.....	1.86	30-1	T.	18	14	5	12	James C. Long.
Newark.....	Essex.....	11	93	59.9	-1.5	90	13	33	9	5.38	+1.46	0.71	21-22	0	16	5	11	15	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	99	93	60.8	+0.1	88	29	31	9†	6.63	+2.84	1.55	30-1	0	18	12	4	15	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	29	.....	.....	.....	.....	.....	.....	5.82	+2.46	0.98	25	0	15	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	64	57.0	-2.3	87	29	24	10	9.24	+5.55	2.10	30-1	T.	16	11	11	9	Charles M. Wheeler.
Orange††.....	Essex.....	140	7	.....	.....	.....	.....	.....	.....	5.57	.....	0.85	19-20	0	18	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	100	76	59.5	-2.1	87	13	31	9†	6.82	+2.66	1.25	25	0	17	9	10	12	J. W. Cook.
Pemberton.....	Burlington.....	60	18	61.8	-1.9	89	29	27	10	8.24	+5.09	1.88	1	0	16	13	10	8	Charles A. Doehrlert.
Phillipsburg.....	Warren.....	182	64	57.6	-3.6	86	29	30	9†	6.56	+2.97	1.26	5-6	0	16	10	11	10	Town Engineer.
Plainfield.....	Union.....	120	59	60.0	-0.4	90	29	29	10	7.06	+3.25	0.98	4	0	18	7	10	14	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	6	.....	.....	.....	.....	.....	.....	7.82	.....	1.50	30-1	0	11	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	49	59.5	-0.1	85	13	28	10	4.70	+1.67	0.73	25	0	14	12	10	9	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	8	.....	.....	.....	.....	.....	.....	6.18	.....	1.40	30-1	0	16	11	9	11	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	30	58.8	-1.5	88	13	28	10	6.83	+3.28	1.30	30-1	0	17	10	10	11	George P. Kirsten.
Runyon††.....	Middlesex.....	18	24	59.5	-0.4	94	29	22	10	6.33	+2.74	1.46	30-1	0	15	15	10	6	N. J. Dept. of Conservation
Rutherford.....	Bergen.....	51	3	59.7	.....	87	13	33	10	7.13	.....	1.05	29-30	0	20	5	11	15	Harold Scott.
Sandy Hook.....	Monmouth.....	22	49	59.3	+0.9	84	13	36	9	5.08	+1.36	0.81	1	0	16	4	13	14	U. S. Coast Guard.
Somerville.....	Somerset.....	65	64	60.5	-0.2	90	29	26	10	8.14	+4.49	1.59	30-1	0	16	10	7	14	William E. Haver.
Sussex.....	Sussex.....	450	52	59.6	-0.2	88	24†	25	10	7.80	+4.19	1.41	25	0	17	9	4	18	Marshall Hunt.
Toms River.....	Ocean.....	33	26	.....	.....	.....	.....	.....	.....	6.16	+2.07	1.25	30-1	0	14	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	75	60.9	-0.2	88	29	34	9	6.86	+3.73	1.15	4	0	14	6	12	13	U. S. Weather Bureau.
Trenton No. 2.....	do.....	105	17	61.4	-1.4	89	29	32	9	7.24	+3.71	1.26	4	T.	15	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	54	.....	.....	.....	.....	.....	.....	7.29	+3.75	1.97	1	0	12	14	9	8	John H. Brown.
Vineland.....	Cumberland.....	110	67	.....	.....	.....	.....	.....	.....	7.15	.....	1.53	30-1	0	15	5	10	16	Robert Jones.
Westfield.....	Union.....	135	8	.....	.....	.....	.....	.....	.....	6.04	+2.63	1.08	14	0	18	.....	.....	.....	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	29	.....	.....	.....	.....	.....	.....	6.04	+2.63	1.08	14	0	18	.....	.....	.....	Hackensack Water Co.
Woodstown, 2 mi. N.....	Salem.....	16	0	60.7	.....	88	29	30	9	.....	.....	.....	.....	.....	.....	10	7	14	J. De Geus.
New York, N. Y.....	.....	10	77	59.0	-1.6	83	13	34	9	4.86	+1.62	1.25	30-1	0	16	4	14	13	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	26	77	62.0	-0.9	87	29	35	9	8.68	+5.42	1.91	22	0	15	7	12	12	U. S. Weather Bureau.
For the State.....	.....	.....	.....	60.1	-0.5	94	29	18	10	7.22	+3.60	3.82	30-1	T.	15	11	9	11	sw.

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T. Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for May 1947

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast	.45	T.	.04	.45	.32	.01	.03							.78		T.	T.	.12	T.	.24	T.	.30			.96	.02			.34	.04	4.10		
Bass River	do.	.89	1.00	.80	.60	.60	.04								.40	.49			.12		.79	T.	.64	.63	T.		.30	.48			.36	8.14		
Belleplain	Tuckahoe	1.43	.05	1.78	.18		.10								.30	.05			.30		.37	.05	.85			.23	.60			.51		6.80		
Belmar ²	Coast	1.10	.01	.12	.19	.55	T.	.10						T.	.18	T.	T.	T.	.01		.01	.25	.63			.25	T.			.33	.04	3.77		
Belvidere	Delaware	1.20	.05	.04	.03	.17		.09	T.						.15	.01	T.	T.	.76	.03	.64	.44	.40		T.	.80	.42		.07	.62	.67	7.59		
Berlin ³	Mullica	3.00	.15	T.	.30	.83	.40								.25					.03	.52	.82		1.32		.32					1.92	9.86		
Boonton ³	Passaic	1.69	.02	.10	.04	.64	.38	T.							.17	.89				.27	.93	.17	.30	.41	T.	.05	2.13		.02		.68	8.89		
Bridgeton	Delaware	2.13			.56	.36	.04								.26					.26	1.14	1.14	1.26			.14	.83				.70	7.82		
Brooklawn	do.	3.82			.70	.30	.09								.28					.09	1.22	.73	1.36			.36					.48	9.43		
Burlington	do.	.20	.12		2.10	.40									.52					.15	1.08	.53	1.35			.40	.20				.35	8.40		
Canoe Brook ³	Passaic	1.66	.02	.22	.06	.85	.40		.06						.04	.33				.27	.48	.76	.25	.18	.48	.01	1.32		.05		.73	8.17		
Canton ³	Delaware	1.09			.40	.03	.37		.02						.06	.46		.01	.05		.44	.04	.51	.25	.05		.55				.90	5.23		
Cape May ¹	Coast	.29			2.01	.32		.01							.30	.05				.30			.36		.01	.01		1.04			.49	5.19		
Charlotteburg	Passaic	1.54	.10	.13	.42	.43	.09	.09							.74	.20				.50	.09	.75	.53	.42		1.75	.36		.07		.60	8.81		
Chatham ³	do.	1.71	.01	.19	.03	.04	.81		.02						.28					.24	.48	1.06	.22	.22	.54	T.	1.46		.08		.67	8.56		
Chatsworth	Coast	1.58	.05		.65	.57		.06							.42	T.				.03	T.	.64	.29	1.00		.67			*	.70	6.66			
Clayton	Delaware	1.06		.14	.75	.44	.18	.02							.26		.04	.07	.03	.02	.65	.14	.81			.05	.56			1.12	6.34			
Clinton	Raritan	1.78	.02	T.	.39	1.19	.12	.08							.11					.18	.36	.92	.34	.53			.40	.38		.04		.84	7.68	
Culvers Lake	do.	.96	.01	T.		1.28	T.	.09							.75	.05				.30	.06	.24	.34	.48			.80	1.13			.75	7.24		
Elizabeth	Coast	1.40	.08	.26	.68	.17	.09	.04							.32	.07		T.	.43	.10	.69	.37	.81			.28	.34		.01		.80	6.94		
Essex Falls ³	Passaic	1.85	.19	T.	T.	.88	.26								.41	.37				.10	.23	.20	.94	.47		.07	1.73	T.	.50		.66	8.86		
Flemington	Raritan	1.94	T.	T.	.51	.55	.26	.04	T.						.22					.51	.08	.76	.47	.76			.35	.41		.04		.55	7.45	
Freehold	do.	1.78	.03	.25	.82	.33	.20	.05							.16					.11		.73	.51	.73			.03	.48			.62	6.83		
Hammonton	Mullica	1.10			2.40	.33	.17								1.10	T.		*		.11	T.		.95				1.61				.75	8.52		
Hightstown	Raritan	1.57	T.	.08	.73	.75		.18	T.						.20		T.	T.	T.	.15		.80	.21	1.68			.12	.28			.60	7.35		
Indian Mills	Mullica	1.10		T.	1.28	.81	.27	.08							.36					T.	.11	.55	.23	1.24			.06	.40		T.	.95	7.44		
Jersey City ²	Coast	.12	.20	.06	.54	.25		.06							.45			.09	.30	.15	.26	.44	.60			.18	.02			.02	.04	3.78		
Lakewood	Metedconk	1.81	.02	.50	.70	.25	.22	.07							.50				.04		.40	.90	.80			T.	.30				.45	6.96		
Lambertville	Delaware	1.40	T.	.01	.67	.72	.11	.02							.40	.03				T.	.16	.02	.75	.25	1.00		.80	.14		.07		.65	7.17	
Layton	do.	.57	.05	.08		1.36	.03	.14	T.						1.22	.03				.33		.29	.46	.70			1.47	T.			.57	7.45		
Little Falls ³	Passaic	1.67	.02	.17	.27	.78	.27	.05	T.						.62	.27				.16	.07	.89	.32	.27	.31		.07	1.45		.04		.68	8.38	
Long Branch ²	Coast	.78	.02	.37	.29	.42		.04	T.						.15				T.	.08	.11	.39	.94	.57			.21			.48	.03	4.88		
Long Valley ³	Raritan	1.90				.25	1.50		.12						.11	.26				.11	.26	1.20	.55	.43			.22	1.70			.10	.70	9.09	
Manville ²	do.	.78	T.	.02	.40	.37		.03							.13				.05	.57	.50	.40	.30	.80			.78		T.	.87		6.00		
Marlton	Delaware	3.42			.82	.55	.31	.02							.55					.11		.70	.95	.92	.12	.01	.20	.42	T.		.45	9.63		
Mays Landing	Gt. Egg Harbor	1.16			1.11	.62	.05	.05							.12	.07				.22	T.	.30	.81	1.02	.12	.01	.20	.42	T.		.45	6.73		
Midland Park ²	Passaic		.10	.23	.61	.29	T.	.17	T.						1.15					.30	.07	.84	.48	.43		.10	1.64		.05	.62		7.08		
Millville (Arpt.) ²	Maurice	1.72		T.	1.05	.27	T.	T.							.26					T.	.12	.66	.09	.68	1.14		.50			.66	.10	7.25		
Moorestown ³	Delaware	3.71	.01		.10	.88	.58		.03						.15	.27				.05	T.	1.24	.75	.43	.61			.24			.29	9.34		
Morris Plains	Passaic	1.86	.14	.20	.76	.23	.04	.08		T.					.36	.46				.35	.15	.96	.42	.47			1.60	1.07		.03	.66	9.92		
Newark ¹	Coast	.50	.07	.32	.47	.19		.04	T.						.59				.20	.31	.24	.32	.35	.70			.41			.01	.66	5.38		
New Brunswick	Raritan	1.55	.02	.09	.72	.23	.11	.25	T.						.08	.02				.25	.05	.85	.35	.84			.08	.37		.02	.75	6.63		
New Milford ²	Hackensack	.23	.11	.26	.42	.32		.09							.80					.07	.30	.56	.34	.50			.98	.02		.82		5.82		
Newton ³	Delaware	2.10	T.	T.	T.	.24	1.14		.08	T.					.68	.41				.22	.49	.65	.10	.55	.26		.09	1.66		.03	.54	9.24		
Orange ¹	Passaic	.44	.04	*	.79	.15		.04							.01	.49				.05	.55	.26	.59	.34	.53			.49		.06	.73	5.57		
Paterson ²	do.	.30	.08	.18	.86	.29	.04	.06							T.	.87				T.	.30	.35	.52	.36	.47		.11	1.25		.04	.74	6.82		
Pemberton	Delaware	1.88	.03	T.	.83	.48	.24	.03							.37	.04				T.	.06	.01	.80	1.00	1.12		.03	.27			1.05	8.24		
Phillipsburg	do.	.44	T.		.46	1.17	.09	.12	T.						.15					.10	.29	.30	.45	.58	.43		T.	.32	.15		.22	.69	6.56	
Plainfield	Raritan	.75	.08	.18	.98	.30	.24	.05							.09					T.	.78	.02	.75	.35	.65			.37	.45		.02	.10	.90	7.06
Plainsboro	do.	1.50	T.		1.25	.75	.18								.18					T.	.15		.98	.28		.55	1.15			.85		7.82		
Pleasantville ³	Coast	.65		.20	.21	.55	.28		.09						T.	.24				.20		.07	.34	.01	.63			.73			.50	4.70		
Rahway ²	Rahway	.75	*	1.02	.42		.04								.18					*	.81	*	.90	.30	.80			*	.33					

Daily Temperatures for May 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum... 57	60	52	66	59	70	67	52	53	57	63	62	77	69	50	55	62	69	71	73	66	65	67	64	64	70	78	66	68	66	68	64.1
	Minimum... 53	52	48	49	50	52	44	38	36	37	41	54	56	46	46	47	53	53	58	57	59	56	54	56	59	58	58	58	50	51	50	51.4
Belleplain.....	Maximum... 80	81	68	67	69	69	65	58	52	60	70	77	82	81	58	67	71	81	81	88	82	73	75	84	81	75	85	84	85	79	72	74.2
	Minimum... 52	49	52	52	50	44	36	35	30	29	31	31	43	47	45	44	53	53	62	60	63	59	56	58	60	58	50	52	53	59	48	48.8
Belvidere.....	Maximum... 81	70	54	55	59	71	64	51	50	65	75	83	87	59	59	67	75	68	83	84	78	72	83	88	75	78	73	87	90	70	73	71.9
	Minimum... 60	46	47	47	48	48	47	33	32	28	31	40	50	45	44	37	46	55	55	63	64	54	47	57	58	55	55	55	54	49	41	48.4
Boonton/.....	Maximum... 79	48	54	67	57	70	60	49	50	61	71	79	83	61	59	66	75	69	79	80	69	58	70	83	72	76	76	82	88	67	70	68.6
	Minimum... 46	42	41	47	45	45	45	35	33	29	33	40	36	57	42	37	39	48	52	55	55	55	47	50	56	55	42	52	55	50	43	45.4
Bridgeton.....	Maximum... 83	82	73	70	67	69	70	61	52	61	69	83	89	78	65	70	78	79	82	85	84	70	76	82	80	73	78	83	88	82	71	75.3
	Minimum... 61	55	50	51	50	49	49	36	33	33	35	43	50	47	44	42	53	55	60	61	64	58	57	62	63	56	57	59	67	51	47	51.5
Burlington.....	Maximum... 82	64	66	73	72	73	73	60	51	63	70	83	88	73	56	65	71	73	85	82	86	75	81	85	85	79	80	90	90	88	70	75.2
	Minimum... 61	46	47	49	54	49	47	39	39	36	41	50	57	46	44	42	51	54	56	62	65	60	56	55	65	62	62	70	72	69	51	53.5
Canoe Brook /.....	Maximum... 74	48	52	67	61	72	61	50	55	60	73	83	87	60	55	68	73	66	78	84	73	64	81	84	72	76	78	86	88	70	73	70.1
	Minimum... 58	44	44	46	44	46	44	35	28	28	27	30	46	55	42	34	40	52	48	58	58	58	47	55	55	56	50	51	50	42	37	45.4
Cape May.....	Maximum... 65	64	60	67	64	69	70	62	54	58	66	68	77	69	50	55	62	69	72	83	79	68	68	71	67	70	77	73	71	69	67	67.5
	Minimum... 55	54	51	51	50	51	50	41	42	46	51	56	46	46	46	47	53	53	60	60	59	60	56	56	62	57	65	59	62	55	50	53.1
Charlotteburg.....	Maximum... 76	75	50	65	55	69	69	50	50	47	54	68	80	85	82	56	70	79	81	80	66	81	84	71	77	76	83	86	82	72	71	71.3
	Minimum... 58	40	42	49	41	45	45	30	30	29	30	35	52	47	39	31	44	50	58	55	51	50	51	51	52	50	44	60	45	34	44.8	
Chatsworth.....	Maximum... 80	75	70	67	59	65	69	63	52	59	68	84	90	83	58	71	73	73	82	86	81	79	80	71	75	80	82	78	80	70	74.7	
	Minimum... 69	46	47	50	50	43	47	36	29	46	29	36	43	45	43	39	51	53	55	60	62	58	54	58	60	56	49	57	63	63	40	49.6
Clayton.....	Maximum... 82	76	58	69	64	69	69	56	52	62	70	83	88	76	62	70	74	76	84	86	84	75	80	84	80	76	82	86	89	69	72	74.3
	Minimum... 62	48	48	51	51	48	45	36	31	30	35	41	49	46	41	42	52	54	57	62	65	57	55	60	62	56	53	57	61	52	45	50.2
Elizabeth.....	Maximum... 79	73	53	66	66	74	70	55	56	65	74	83	88	80	56	64	76	69	78	84	82	76	82	84	75	77	81	87	92	85	74	74.8
	Minimum... 58	44	45	50	58	46	41	35	30	27	33	42	50	43	42	39	45	56	52	56	59	56	40	55	58	56	52	56	51	41	47.7	
Flemington.....	Maximum... 80	78	53	68	70	73	74	56	54	66	76	82	87	81	57	70	71	70	82	85	80	76	81	85	78	77	80	85	88	82	75	74.8
	Minimum... 60	45	46	50	49	51	44	34	32	29	32	39	47	43	37	47	53	52	57	58	53	50	57	57	55	55	55	62	50	42	48.1	
Freehold.....	Maximum... 77	69	53	71	62	70	68	51	52	62	70	86	86	80	53	66	74	79	81	83	81	77	88	86	85	75	76	86	88	81	71	73.8
	Minimum... 59	44	45	49	49	47	49	34	31	29	34	48	53	45	44	38	45	52	55	57	59	55	53	55	58	55	54	57	63	51	41	48.6
Hammontou.....	Maximum... 60	57	58	67	68	70	71	64	53	63	72	85	89	78	72	65	74	78	84	88	81	84	78	87	80	78	83	88	90	76	72	74.6
	Minimum... 48	47	50	47	50	49	47	37	31	30	36	47	51	46	46	42	44	58	54	63	58	56	46	61	61	57	50	58	70	54	44	49.6
Hightstown.....	Maximum... 77	69	52	67	65	69	66	56	51	62	70	80	85	73	55	70	73	70	83	81	81	71	80	83	77	73	76	85	88	79	70	72.2
	Minimum... 60	44	45	49	49	45	44	34	30	29	33	42	51	44	44	38	47	52	51	58	58	59	51	57	59	54	52	57	64	51	41	48.2
Indian Mills.....	Maximum... 79	74	55	68	63	68	69	51	51	61	70	83	89	77	59	71	73	77	84	86	83	71	81	86	79	75	81	87	90	70	72	73.6
	Minimum... 61	47	47	50	48	47	43	35	28	26	27	39	46	45	43	37	50	53	53	61	63	57	53	59	60	55	53	58	66	52	39	48.4
Jersey City*.....	Maximum... 69	48	50	60	54	69	59	47	50	60	69	79	84	70	54	68	66	66	72	81	70	67	75	73	68	68	71	72	76	70	70	66.4
	Minimum... 48	41	44	51	50	48	43	37	33	35	42	52	58	43	42	50	52	52	58	56	59	57	52	60	58	59	58	60	64	50	46	50.2
Lakewood.....	Maximum... 79	62	52	67	65	71	70	59	52	62	71	85	89	82	53	65	70	75	79	87	80	75	79	77	79	75	85	89	79	73	73.3	
	Minimum... 60	45	45	50	49	48	45	36	32	30	32	45	51	45	44	40	50	52	54	58	59	56	53	56	59	56	54	56	62	53	42	48.9
Lambertville.....	Maximum... 75	73	53	69	68	69	65	57	47	64	70	82	87	77	56	69	66	73	83	84	84	78	83	80	81	75	75	85	83	82	70	73.0
	Minimum... 60	46	47	51	50	48	42	35	31	26	30	37	46	46	44	37	45	54	53	60	59	54	58	50	57	55	51	53	63	52	46	48.6
Layton.....	Maximum... 76	72	52	67	55	69	58	54	49	60	71	83	86	72	58	62	74	65	80	84	78	71	79	84	77	78	79	84	86	67	70	71.0
	Minimum... 57	45	44	48	45	44	43	30	29	18	23	32	47	45	40	31	42	42	52	52	52	45	52	54	51	52	45	65	46	32	44.0	
Little Falls/.....	Maximum... 79	48	58	68	60	72	62	49	51	68	74	80	87	56	60	66	81	73	78	84	72	67	82	86	74	78	79	85	90	71	76	71.4
	Minimum... 59	42	45	46	47	47	49	36	33	29	32	41	52	55	42	38	45	53	62	57	58	57	48	56	57	56	54	53	62	51	41	48.4
Long Branch*.....	Maximum... 73	51	52	65	56	71	69	50	51	60	68	83	89	68	52	57	68	72	74	83	72	70	74	74	70	72	76	76	82	70	72	68.4
	Minimum... 47	44	44	49	48	49	43	35	33	30	35	47	56	44	41	45	50	50	57	54	58	55	54	57	56	57	53	57	56	53	45	48.5
Long Valley /.....	Maximum... 78	48	53	70	55	70	57	48	50	60	70	78	85	60	56	67	74	67	78	81	71	67	78	83	74	75	76	83	87	68	70	68.9
	Minimum... 59	42	45	49	47	46	42	31	29	26	29	35	44	56	41	33	40	48	48	50	56	57	43	53	54	52	51	52	55	48	38	45.1
Millville.....	Maximum... 80	78	60	60	64	69	67	50	52	60	69	80	86	78	61	67	76	79	81	85	81	72	77	83	79	74	79	79	85	68	70	72.5
	Minimum... 60	51	50	52	50	50	43	38	32	30	34	42	52	45	45	44	55	54	59	62	64	58	57	61	62							

51.05
NNJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION

A. E. WHITE.

TRENTON, N. J.

VOL. LII.

JUNE 1947

No. 6

GENERAL SUMMARY

This was the coolest June since 1938 although the average deficiency for the State was only 1.5°. The first half of the month was just about normal and the low monthly average was due mainly to a cool period from about the 15th to 25th. The coldest morning was the 5th when minima in the thirties were registered at many stations. No frost was reported, however. The warmest days were the 11th and 12th with most stations registering their highest on the 11th. In most localities, there were only two or three days on which the temperature reached 90°.

Precipitation averaged slightly below normal for the State though many stations reported monthly amounts much greater than normal. Rainfall was heaviest in the northern counties and least in the coastal area and extreme South. Hail fell on the 20th in connection with severe thunderstorms at a few stations, and moderate damage to crops was caused by hail at that time in limited areas of Mercer and Somerset Counties. No severe windstorms were reported. A boy was killed by lightning near Bound Brook on the 28th. With the frequent showers, most crops made satisfactory growth though hay harvest was hindered somewhat.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 44 stations, was 67.6°, which was 1.5° below normal. The highest temperature was 96° at Burlington on the 11th, and the lowest, 35°, at 2 stations on the 3d and 5th. The highest monthly mean temperature was 72.4° at Burlington, and the lowest, 64.7° at Charlotteburg. The temperature departure from the normal for the year 1947, to date, for the State is 0.0°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 60 stations, was 3.71 inches, which was 0.12 of an inch below normal. The greatest monthly precipitation was 8.15 inches at Phillipsburg, and the least, 0.83 of an inch at Cape May. The greatest amount of precipitation in any 24 consecutive hours was 2.39 inches at Trenton No. 2 on the 20th. The average for the Highlands was 4.90 inches; for the Red Sandstone Plain, 4.31 inches; for the Southern Interior, 3.34 inches; and for the Sea Coast, 1.80 inches. The precipitation accumulated departure from the normal for the year 1947, to date, by sections, is: the Highlands, +4.65 inches; Red Sandstone Plain, +2.07 inches; Southern Interior, +0.68 of an inch; Sea Coast, -2.64 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HAIL: 20. HEAVY FOG: 7, 8, 10, 11, 18, 19, 29.
THUNDERSTORMS: 2, 3, 6, 7, 8, 11, 12, 13, 14, 15, 20, 21, 22, 23, 26, 28, 29.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity				Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.	Percentage of sunshine	
Atlantic City.....	30.35	21	29.72	3	14.3	34	s.	14	83	74	82	70	46
Long Branch.....	30.34	21	29.66	14	10.7	27	s.	1	82	58	78	67	51
Newark.....	30.35	21	29.68	3	.....	30	w	6	72	70	70	.....	37
Trenton.....	30.34	21	29.66	14	8.2	30	s.	14	77	70	70	62	30

* Noon

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	68.7	97	39	1.79	0	.....	.....	.....
1886.....	67.1	91	41	3.38	0	.....	.....	.....
1887.....	68.2	97	42	6.77	0	10	.....	.....
1888.....	70.8	99	39	2.59	0	6	.....	.....
1889.....	69.9	91	40	3.73	0	10	.....	.....
1890.....	70.7	95	42	3.59	0	7	11	13
1891.....	69.7	102	38	2.92	0	5	14	9
1892.....	72.4	98	44	3.85	0	11	10	12
1893.....	69.7	103	40	2.95	0	8	10	11
1894.....	70.6	102	35	2.28	0	9	14	11
1895.....	71.7	103	39	3.24	0	10	11	11
1896.....	68.1	96	37	5.46	0	10	12	10
1897.....	66.1	95	35	3.38	0	10	10	13
1898.....	70.1	100	38	2.10	0	8	14	12
1899.....	72.3	103	38	2.50	0	7	15	10
1900.....	70.4	97	39	3.08	0	8	12	12
1901.....	70.0	103	35	1.67	0	5	18	8
1902.....	67.5	99	37	6.57	0	11	14	11
1903.....	64.0	92	37	7.68	0	15	6	10
1904.....	68.6	100	34	3.13	0	12	13	10
1905.....	68.3	96	35	3.43	0	10	11	12
1906.....	70.4	98	38	4.48	0	12	11	11
1907.....	64.7	96	31	4.41	0	10	12	10
1908.....	69.9	99	35	2.32	0	4	16	12
1909.....	70.0	99	36	3.26	0	12	9	10
1910.....	66.9	95	34	5.17	0	13	9	10
1911.....	68.9	97	40	5.36	0	14	9	12
1912.....	68.0	98	33	1.94	0	8	9	12
1913.....	69.1	98	31	1.80	0	5	19	8
1914.....	68.5	98	35	2.66	0	7	14	9
1915.....	67.0	95	37	3.12	0	11	13	10
1916.....	64.7	87	36	4.20	0	13	10	9
1917.....	68.9	95	40	4.27	0	12	13	10
1918.....	66.3	96	32	3.43	0	8	15	9
1919.....	69.5	99	38	3.16	0	8	16	7
1920.....	68.4	98	38	6.18	0	12	13	9
1921.....	70.4	100	33	3.23	0	8	18	7
1922.....	71.1	95	39	6.31	0	15	12	9
1923.....	72.5	106	37	2.08	0	7	18	8
1924.....	66.8	95	30	4.20	0	13	11	11
1925.....	73.6	103	36	3.10	0	9	17	9
1926.....	64.9	97	31	2.60	0	11	12	9
1927.....	65.4	97	31	3.16	0	10	15	9
1928.....	66.6	93	36	6.75	0	15	10	9
1929.....	69.5	98	33	3.11	0	9	15	9
1930.....	70.8	98	30	4.17	0	8	16	8
1931.....	69.3	101	40	4.84	0	10	16	7
1932.....	69.3	98	30	3.68	0	10	13	8
1933.....	71.0	105	32	2.79	0	9	17	8
1934.....	72.6	103	38	3.68	0	7	16	9
1935.....	68.9	96	38	4.64	0	13	14	8
1936.....	69.1	99	38	4.93	0	12	12	7
1937.....	70.5	99	41	4.66	0	13	11	9
1938.....	67.2	96	29	7.79	0	13	11	9
1939.....	70.8	99	35	3.65	0	10	12	9
1940.....	68.6	95	32	3.28	0	10	12	9
1941.....	69.4	98	37	5.09	0	9	15	7
1942.....	69.8	96	41	3.11	0	11	11	9
1943.....	74.2	102	43	3.24	0	9	17	6
1944.....	70.4	100	33	4.08	0	10	12	10
1945.....	69.9	100	30	4.30	0	13	11	10
1946.....	68.1	99	33	5.25	0	11	12	8
1947.....	67.6	96	35	3.71	0	10	13	9
Period.....	69.1	106	29	3.83	0	10	13	10

Climatological Data for June 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days			Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City	Atlantic	8	74	66.0	-0.6	90	12	52	5	1.77	-1.27	0.90	6-7	0	7	7	11	12	s.	U. S. Weather Bureau.
Belleplain	Cape May	49	53	68.8	-0.6	93	12†	36	5	2.37	-0.82	0.91	7-8	0	9	13	12	5	s.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	6							2.08		0.63	7	0	10	8	20	2	se.	City Water Dept.
Belvidere	Warren	289	55	68.2	-1.4	95	11	44	4†	4.47	+0.15	1.65	14	0	10	18	3	9		Miss C. S. Hixson.
Berlin, 1 mile W.	Camden	70	6							3.09		0.83	14	0	7	21	6	3	sw.	Samuel H. McCulley.
Boonton	Morris	280	57‡	65.0	-2.8	90	11	40	5	3.26	-0.54	1.55	14	0	9	19	4	7	sw.	J. C. Water Works.
Bridgeton	Cumberland	30	64	69.8	-2.4	91	12	45	5	3.92	+0.26	1.69	14	0	9	18	6	6	se.	Bennett K. Matlack.
Brooklawn	Camden	30	6							3.16		1.07	8	0	5					C. D. Scott.
Burlington	Burlington	12	61‡	72.4	+1.0	96	11	50	22	2.94	-1.08	0.85	8	0	8	16	7	7	sw.	Public Service E. & G. Co.
Canoe Brook††	Essex	180	17	66.1	-1.7	92	11	39	5	4.01	0.00	1.00	8	0	11	19	6	5	sw.	N. J. Dept. of Conservation
Cape May	Cape May	17	59	69.2	+0.8	89	12	44	5	0.83	-2.24	0.15	9	0	9	18	10	2	se.	Richard F. Umfrid, Jr.
Charlotteburg††	Passaic	760	55	64.6	-1.1	90	11	35	5	5.48	+1.12	2.08	7-8	0	13	4	1	25	w.	Newark Water Dept.
Chatham	Morris	185	43							3.82	-0.36	1.09	14-15	0	12	19	6	5		Edward P. Molitor.
Chatsworth	Burlington	90	7	67.8		93	11	36	5	3.14		0.96	26	0	6	13	12	5	sw.	Alfred L. Stevenson.
Clayton	Gloucester	129	34	69.3	-0.7	94	11	42	5	3.21	-0.51	0.82	14	0	11	10	19	5	sw.	Harry P. Campbell.
Clinton	Hunterdon	300	4							4.81		1.69	8	0	11	17	4	9	sw.	L. W. Klockner.
Culvers Lake††	Sussex	760	46							3.26	-1.18	1.32	14	0	10					L. S. Depue.
Elizabeth	Union	33	68	68.2	-2.4	93	11	45	5	4.52	+0.76	1.38	8	0	12	18	6	6	ne.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	134	61‡	68.4	-1.8	93	11	42	5	4.15	+0.21	1.27	7-8	0	8	19	7	4	sw.	Hiram E. Deats.
Freehold	Monmouth	194	43‡	69.7	-1.0	93	11	44	5	3.64	-0.17	0.85	28	0	11	14	9	7	s.	Moreau Plant Co.
Hammonton	Atlantic	95	41‡	69.9	-1.9	94	10	41	5	3.59	-0.26	1.43	8-9	0	6	14	8	8	w.	J. G. Wilson.
Hightstown	Mercer	100	54	67.2	-2.1	93	11	43	5	2.84	-1.06	0.76	8	0	9	11	12	7	sw.	James R. Pickering
Indian Mills††, 2 mi. W.	Burlington	100	58	67.8	-2.4	95	11	37	5	4.11	-0.11	1.06	7-8	0	9	10	15	5	s.	Edward Entwistle.
Jersey City	Hudson	135	49	66.1	-4.8	89	12	49	5	4.49	+0.80	0.94	14	0	9	13	8	9	sw.	J. C. Water Dept.
Lakewood	Ocean	54	43	68.1	-1.0	92	11†	39	5	3.47	-0.62	1.22	18	0	9	6	16	8	sw.	R. W. Holman.
Lambertville	Hunterdon	75	60	67.2	-2.5	88	12†	42	5	2.91	-1.17	0.83	14	0	9	17	7	6	s.	George Bailey.
Layton††, 3 miles NW.	Sussex	480	46	64.9	-1.4	92	11	37	5	2.76	-1.51	1.16	14	0	10	13	9	8	s.	A. M. Depue.
Little Falls	Passaic	157	44	67.6	-1.8	92	11	41	8	4.40	+0.23	1.08	7-8	0	13	14	10	6	e.	Passaic Valley Water Co.
Long Branch	Monmouth	34	39	66.6	-1.5	90	12	43	5	2.34	-1.56	0.67	7	0	10	11	11	8	s.	Storm Warn. Display Sta.
Long Valley	Morris	660	17	64.8	-2.8	90	11†	38	5	4.77	+0.22	1.67	13	0	9	17	7	6	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	6							3.06		0.82	8	0	9	15	8	7	ne.	David Griscom.
Mays Landing	Atlantic	50	3							2.33		0.89	6-7	0	8	21	5	4	sw.	Elmer Earle.
Millville, 2 mi. SW.	Cumberland	60	7	69.2		92	12	42	5	3.57		0.98	26	0	9	2	16	12	s.	Millville Airport.
Moorestown	Burlington	62	84	67.6	-2.7	92	11	42	5	4.03	+0.26	0.87	28	0	11					Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	400	6	65.8		90	11†	38	5	6.70		1.98	8	0	12	17	5	8		James C. Long.
Newark	Essex	11	93	67.8	-2.1	90	6	48	5	3.69	-0.20	1.27	7-8	0	11	4	14	12	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	99	93	67.8	-1.6	92	11†	43	5	3.07	-0.73	1.02	7-8	0	11	17	4	9	nw.	N. J. Experiment Station.
New Milford††	Bergen	12	29							4.76	+0.83	1.61	8	0	14					Hackensack Water Co.
Newton	Sussex	769	64	65.2	-2.8	91	11	38	4	5.21	+0.89	1.65	14	0	14	8	18	4	sw.	Charles M. Wheeler.
Orange††	Essex	140	7							3.69		1.24	14-15	0	12					County Engineer.
Paterson	Passaic	100	76	68.2	-1.9	92	11	49	24	4.61	+0.44	1.50	8	0	12	11	12	7	w.	J. W. Cook.
Pemberton	Burlington	60	18	68.2	-3.8	93	11	40	5	3.10	-1.53	0.74	8	0	8	14	12	4	nw.	Charles A. Doehlert.
Phillipsburg	Warren	182	64‡	66.0	-3.5	92	11	42	5	8.15	+4.26	2.29	20-21	0	13	16	7	7		Town Engineer.
Plainfield	Union	120	59	67.1	-2.0	91	11	43	5	4.07	-0.09	1.36	7-8	0	11	7	15	8	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	6							3.60		1.32	7-8	0	7					Walker-Gordon Lab.
Pleasantville††	Atlantic	8	49	67.0	-2.0	93	12	37	5	1.91	-1.55	0.70	6-7	0	8	17	8	5	s.	N. J. Dept. of Conservation.
Rahway	Union	20	8							3.12		1.32	7-8	0	11	15	9	6	sw.	Louis Fontenelli.
Ridgefield	Bergen	80	30	67.2	-1.8	91	11	45	5	3.94	-0.20	0.77	7-8	0	11	7	14	9	se.	George P. Kirsten.
Runyon††	Middlesex	18	24	70.0	+1.1	94	10	35	3	2.45	-1.57	1.51	6-7	0	7	21	5	4	w.	N. J. Dept. of Conservation
Rutherford	Bergen	51	3	67.4		90	27	47	5	4.02		0.97	14	0	14	9	10	11	s.	Harold Scott.
Sandy Hook	Monmouth	22	49	68.4	+0.6	90	12	52	5	1.99	-1.79	0.90	6-7	0	9	4	19	7		U. S. Coast Guard.
Somerville	Somerset	65	64	67.8	-1.5	94	11	41	5	4.87	+1.03	1.56	7-8	0	11	16	5	9	w.	William E. Haver.
Sussex	Sussex	450	52	66.3	-1.4	93	11	40	4	5.08	+0.92	1.99	14-15	0	11	8	6	16	sw.	Marshall Hunt.
Toms River	Ocean	33	26							5.06	+1.25	2.35	26	0	10					Robt. F. Snyder.
Trenton	Mercer	56	75	68.6	-0.9	93	11	49	5	3.29	+0.20	1.07	20	0	10	4	16	10	s.	U. S. Weather Bureau.
Trenton No. 2	do.	105	17	69.0	-2.3	95	11	47	5	5.06	+0.34	2.39	20	0	11					Edward H. Ristow.
Tuckerton	Ocean	23	54	67.0	-2.2	92	12	42	5	1.37	-2.14	0.62	8	0	5	18	3	9	s.	John H. Brown.
Vineland	Cumberland	110	67							3.78	+0.23	1.00	14	0	7	17	11	2	s.	Robert Jones.
Westfield	Union	135	8							3.68		1.21	14-15	0	9	17	2	11	sw.	Town Engineer.
Woodcliff Lake††	Bergen	103	29							5.83	+2.14	1.59	8	0	13					Hackensack Water Co.
Woodstown, 2 mi. N.	Salem	16	0	69.0		92	11	45	4	3.55		1.27	14	0	8	11	9	10		J. De Geus.
New York, N. Y.		10	77	67.4	-1.4	87	28	52	9	3.20	-0.13	1.08	7-8	0	9	6	12	12	s.	U. S. Weather Bureau.
Philadelphia, Pa.		26	77	69.8	-1.6	93	11	52	5	4.70	+1.46	1.35	20	0	10	7	14	9	s.	U. S. Weather Bureau.
For the State				67.6	-1.5	96	11	35	5†	3.71	-0.12	2.39	20	0	10	13	9	8	sw.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town.

Daily Precipitation for June 1947

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast			.02			.74	.50	.13						T.	.02			.17						T.	T.	.19		T.	T.			1.77	
Bass River	do.						.50	.50	.60							.10	.15		.36						.02	T.	.69	T.	.01	T.			2.68	
Belleplain	Tuckahoe						.42	.91	.09						.10	.15			.21	.04	T.					.05	.03	.40		.05	T.	T.		2.37
Belmar ²	Coast	.13					.14	.63	.37	T.	T.				.30	.02			.12							.05	.03	.29			T.	T.	2.08	
Belvidere	Delaware	.12					.12	.36	1.20						1.65	.34			.32		T.				T.	.06			.02	.28			4.47	
Berlin ³	Mullica						.53	.50	.45							.83			.36			.35			T.	.07		T.	T.				3.09	
Boonton ³	Passaic						.04	.67					T.			.44	1.55		.12	.05		.20		.02	T.	.17			T.	T.			3.26	
Bridgeton	Delaware						.17	.61	.06						1.69	T.			.08						T.	.02	.99		.04	T.	.26		3.92	
Brooklawn	do.						.64	1.07								.73			.28				.44		T.	.02	.99		.04	T.		3.16		
Burlington	do.						T.	.65	.85			T.				.15	.05		.30			.35				.50			.09				2.94	
Canoe Brook ³	Passaic			.03			.17	.77	1.00				T.			.25	.98		.16	.20		.23		.10									4.01	
Canton ³	Delaware	T.					T.	.91	.13							.04	.85	.01		.06								.23		.63			2.97	
Cape May ¹	Coast	.10					.09	.13	.15							.10			.03	T.							.13	.05	T.	T.	.05		0.83	
Charlotteburg	Passaic	.03					.20	2.08							1.01	.96			.03	.03		.13		.02	.19	.32	.29			.06			5.48	
Chatham ³	do.			.05			.11	.74	.78				T.		.25	1.09			.05	.38		.20		.07		.09			.01				3.82	
Chatsworth	Coast						.31	.62	.17							.57			.51	T.						.96							3.14	
Clayton	Delaware		T.					.45	.78	.11						.82	.12			.56	.01		.04		T.	.06	.24		.02				3.21	
Clinton	Raritan						.32	.32	1.69				T.			.76	.44			.46				.02	.01	.07			T.	.02			4.81	
Culvers Lake	do.			.05			T.	.39	.88						1.32	.23			.11		.10				.05	.04	.09						3.26	
Elizabeth	Coast						.03	.45	1.38						.33	.75			.33			.73		.04	.15	.03			.29	.01			4.52	
Essex Fells ³	Passaic							.12	.60	1.87			.34		.29	.90			.10	.25		.25			.86	.25							5.83	
Flemington	Raritan		T.				.33	.48	1.27						.86	.36			.40			.36			T.	.09	T.		T.	T.			4.15	
Freehold	do.			.27				.52	.81	.02					.21	.23			.52			.10			T.	.06	.05		.85				3.64	
Hammonton	Mullica									1.43				.90				.76	T.						.36			.06			.08		3.59	
Hightstown	Raritan		T.				.45	.34	.76						.65			.25		.29	T.				.02	.07	.01		T.	T.			2.84	
Indian Mills	Mullica		T.					.63	1.06	T.					.81	.12		.35			.05			T.	.05	1.00			T.	.04	T.		4.11	
Jersey City ²	Coast	.67					.07	.38	.90						.94			.45		.54					.49	.05							4.49	
Lakewood	Metedeconk							.43	.87	.02					.06	.28		1.22			.05				T.	.14	.40						3.47	
Lambertville	Delaware		T.				.42	.16	.71				T.			.83	.39		.11			.19			T.	.04	T.		T.	.06			2.91	
Layton	do.			.12			.02	.30	.66						1.03	.13			.17						.11	.04		.18					2.76	
Little Falls ³	Passaic							.08	1.08	.96			.26		.29	.70			.15	.10			.20		.05	.49				.03	.01		4.40	
Long Branch ²	Coast		.09				.14	.67	.23						.19	.07		.65			T.		.20		.10	.08	.12						2.34	
Long Valley ³	Raritan							.15	.70	1.25					1.67			.29		.29		.37		.02	.07				.30		.25		4.77	
Manville ²	do.						.15	1.08	.80						1.40	.05		.20		.40				T.	.10				T.			4.48		
Marlton	Delaware							.40	.82						.59	.13	T.		.47			.23			T.	.05			.02		.35		3.06	
Mays Landing	Gt. Egg Harbor.							.89	.60							.20			.15	.10					T.		.35			.02	.02		2.33	
Midland Park ²	Passaic							*	2.14						.68	.20		.45		.60			.02		.69	.01			.18				4.97	
Millville (Arpt.) ²	Maurice							.69	.33						.89	.01		.24						T.		.98		.04	.04	.35			3.57	
Moorestown ³	Delaware						.16	.74	.21				.04		.05	.80	.01		.26			.80			T.	.09			.87				4.03	
Morris Plains	Passaic							.53	1.98	.02			.01		1.09	.72		.30			.28		.01	.01	.04	.02			1.70	T.			6.70	
Newark ¹	Coast		.13				.11	.52	.92						1.06			.41		.28		.01			.22				T.	.01			3.69	
New Brunswick	Raritan		T.					.73	1.02	.02					.29	.32		.21			.35				.04	.06			.01	.02			3.07	
New Milford ²	Hackensack						.04	.20	1.61	.03					.52	.40		.21		.89	.03	.03	.02	.60	.06								4.76	
New ton ³	Delaware			.12	.02			.53	.70	.55					.90	1.65		.12	.02		.28				.07	.08		.07			.10		5.21	
Orange ¹	Passaic			.02			.10	.54	.99						1.14	.10		.30		.18		.01	.03		.26	.02							3.69	
Paterson ²	do.						.07	.45	1.50			.12			.74	.11		.23		.33		.07			.68	.03				.28			4.6	
Pemberton	Delaware							.70	.74	T.					.19	.65	T.	.56			.03				.13	.10			T.	T.			3.10	
Phillipsburg	do.		.03	.02			.78	.95	1.68					T.	1.50	.28		.41		2.24	.05			.04	.03	.14	T.		T.	T.			8.15	
Plainfield	Raritan			.01			.20	.33	1.36						.88	.45		.30		.41				.02	.08	.03			T.				4.07	
Plainsboro	do.						.73	.25	1.32						.23	.47		.23	T.						.50					.10			3.60	
Pleasantville ³	Coast		T.					.70	.65	.08					.01	.09		.11							*			.25		.02			1.91	
Rahway ²	Rahway						.19	*	1.35						*	.69			.32		T.				*	.10			.12		.02		3.12	
Ridgefield	Hackensack		.04				.09	.23	.77						.57	.40		.37	T.	.76	T.				.63	.06					.02		3.94	
Ringwood ³	Passaic		.01					.21	.71	.73					.41	1.22		.12				.46		.04	.02	.68	.17	.07			.02		4.87	
Runyon	Coast							.71	.80						.11	.38		.16			.17			.12								2.45		
Rutherford	Passaic		.04				.06	.40	.82			T.			.97	.15		.37	.01	.46	.02		.03	.64	.03			T.	.02			4.02		
Sandy Hook ²	Coast		.07				.20	.70	.29						.20			.27		.09				.15	.02							1.99		
Somerville	Raritan						.23	.42	1.56						.63	.69		.30			.88			.05	.03	.05				.03			4.87	
Sussex ¹	Hudson			.18			.03	.27	.65						1.65	.34		.17						.20	.30			.14		1.15			5.08	
Swedesboro	Delaware							.60	1.13				T.		1.40	.21		.26							.03				.03	.07			3.73	
Toms River	Coast							.69	.63						.37			.40	.03		.02			.20			2.35			.03			5.06	
Trenton ¹	Delaware		T.				.38	.53	.61			T.			.46	.01		.16		1.07		T.	T.	.03	.03	T.			.01	T.	T.		3.29	
Trenton No. 2 ²	do.		T.				.45	.48	.70			T.			.71	T.		.17		2.39				.07	.03	T.			.01	.01	.04		5.06	
Tuckerton	Coast							.51	.62									.12	.04								.08						1.37	
Vineland	Maurice							.96	.55					.29		1.00									T.	.78			.02		.18		3.78	
Wanaque ³	Passaic																																	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. † Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

Amounts in italics are interpolated. §§ Incomplete.

Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

Canoe Brook ³ ...	{	Evaporation....	224	128	174	192	288	106	*	.042	144	112	176	256	154	.004	128	128	160	.024	176	134	144	180	176	.008	160	128	176	112	160	128	...	4	...
		Wind movement.	37	30	16	9	47	0	1	0	7	11	11	7	11	27	10	6	4	2	19	1	5	5	8	1	10	4	2	5	7	3	...	4	...
Pleasantville ³ ...	{	Evaporation....	272	192	272	256	308	.060	.074	.000	192	192	256	288	138	.090	256	224	286	*	160	224	240	240	192	160	192	154	192	148	160	256	...	5	...
		Wind movement.	45	74	42	26	37	19	18	26	31	32	22	12	40	48	14	29	5	18	14	16	18	8	28	17	32	16	23	21	20	8	...	5	...
Runyon.....	{	Evaporation....	160	160	160	180	210	.209	.010	.000	160	210	210	240	160	140	.030	170	160	160	160	180	180	230	200	180	210	240	240	210	210	...	5	...	
		Wind movement.	29	32	33	32	21	22	48	34	16	12	18	12	10	16	14	18	18	19	13	12	15	15	11	11	20	8	9	9	20	210	...	5	...

³ Observations taken in morning, and entered on preceding day.

** Pan overflowed.

Daily Temperatures for June 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum	64	65	80	62	64	67	72	64	69	71	70	90	69	71	70	73	79	67	77	70	65	70	71	66	83	75	76	75	77	75	71.6	
	Minimum	56	59	60	55	52	58	56	56	56	60	63	67	61	63	64	61	59	61	58	59	54	60	56	65	69	67	66	68	67	69	60.5	
Belleplain.....	Maximum	75	80	80	67	70	87	80	75	78	84	91	93	93	83	78	76	79	75	77	71	80	79	81	77	87	85	85	87	82	86	80.7	
	Minimum	48	62	64	50	36	52	58	56	55	57	64	71	62	63	63	57	50	61	60	48	53	42	45	42	60	66	67	63	68	67	57.0	
Belvidere.....	Maximum	73	80	75	76	75	81	70	64	84	90	95	92	80	81	76	72	80	75	75	79	75	85	87	72	84	85	92	90	89	92	80.8	
	Minimum	47	57	58	44	45	56	55	55	51	56	65	66	58	56	57	55	51	59	54	44	55	50	54	51	57	57	61	59	67	68	55.6	
Boonton.....	Maximum	75	77	75	74	71	84	67	58	79	83	90	86	75	78	74	72	76	67	73	74	75	82	79	61	80	82	88	87	85	89	77.2	
	Minimum	44	51	55	46	40	45	55	53	47	54	55	59	54	55	55	55	49	55	55	49	49	47	52	47	55	55	55	57	64	69	52.7	
Bridgeton.....	Maximum	77	80	78	73	71	88	80	71	78	83	90	91	90	80	79	71	79	78	76	79	73	79	78	77	86	82	84	82	80	84	79.9	
	Minimum	51	61	66	52	45	58	60	56	56	62	66	72	62	65	62	56	55	63	59	55	60	48	53	49	60	65	64	67	70	69	59.6	
Burlington.....	Maximum	89	82	83	82	82	88	78	77	81	85	96	94	85	80	78	77	78	78	77	76	75	82	82	75	85	83	90	90	89	92	83.0	
	Minimum	65	70	72	71	74	57	62	62	55	66	63	60	66	65	63	62	52	58	56	54	55	50	54	55	56	65	64	60	70	71	61.8	
Canoe Brook.....	Maximum	78	79	77	82	71	86	67	60	82	80	92	89	73	81	71	73	79	66	75	74	73	81	80	62	83	85	89	89	85	86	78.3	
	Minimum	47	53	65	46	39	53	63	53	53	54	59	64	56	58	61	51	45	56	54	49	46	45	47	53	53	58	57	66	64	61	53.9	
Cape May.....	Maximum	70	74	73	71	66	82	78	73	74	75	75	89	88	76	75	71	79	71	75	75	72	75	73	73	83	82	79	77	81	81	76.4	
	Minimum	58	59	63	55	44	55	65	58	57	61	64	67	68	64	61	62	63	63	67	65	59	53	62	61	73	64	65	62	69	69	61.9	
Charlotteburg.....	Maximum	75	78	76	71	74	86	84	56	77	82	90	89	83	73	73	70	76	76	71	72	75	81	81	78	80	83	86	86	83	87	87	78.4
	Minimum	43	55	57	41	35	48	56	51	49	49	58	65	52	52	56	49	42	52	49	45	49	49	42	43	53	51	55	53	66	61	50.9	
Chatsworth.....	Maximum	77	80	78	72	70	88	74	66	76	87	93	90	85	82	78	77	79	74	74	76	72	74	74	72	82	79	71	87	85	87	86	79.9
	Minimum	48	58	63	48	36	52	58	55	53	56	61	70	61	60	61	55	49	59	57	50	52	44	48	45	57	58	66	62	62	66	55.7	
Clayton.....	Maximum	77	80	77	75	74	89	81	68	81	85	94	93	89	83	80	75	79	72	77	78	73	81	82	77	85	85	79	87	86	86	80.9	
	Minimum	48	57	63	50	42	54	59	55	54	61	64	70	62	63	62	57	54	60	57	51	54	48	52	46	58	62	66	65	68	68	57.7	
Elizabeth.....	Maximum	79	81	77	75	72	88	72	58	80	93	92	85	81	79	74	78	72	77	76	75	88	76	69	84	85	92	90	87	87	87	87	80.1
	Minimum	46	55	63	53	45	52	57	53	53	58	60	67	60	59	61	55	50	59	55	50	52	49	54	49	55	58	63	64	69	67	56.4	
Flemington.....	Maximum	78	80	76	76	71	89	70	59	84	89	93	91	87	81	75	81	72	75	77	75	83	80	68	84	84	92	89	91	90	90	80.6	
	Minimum	50	52	61	47	42	54	57	58	50	57	61	66	60	59	61	55	51	59	55	50	52	48	51	46	56	61	64	63	68	68	56.1	
Freehold.....	Maximum	87	82	80	73	70	88	88	68	81	88	93	91	88	88	85	88	88	77	85	75	72	83	79	70	87	84	89	91	85	87	87	83.0
	Minimum	48	58	58	52	44	52	54	53	52	60	61	69	60	59	61	57	52	59	55	50	52	48	51	46	56	61	64	63	68	68	56.4	
Hammonton.....	Maximum	78	81	81	76	71	90	85	67	80	94	92	74	83	80	74	80	73	77	75	78	82	80	76	88	87	88	90	86	85	87	81.3	
	Minimum	49	57	66	52	41	56	57	51	56	54	65	64	64	62	56	54	62	59	53	48	46	40	60	64	67	66	69	69	69	69	58.5	
Hightstown.....	Maximum	77	79	76	73	75	87	69	58	78	85	93	89	81	83	76	72	78	69	76	75	70	80	80	64	81	89	90	88	88	88	78.8	
	Minimum	48	54	63	48	43	52	53	53	52	58	62	67	58	59	60	55	49	58	55	48	52	46	51	45	55	59	64	64	65	66	55.5	
Indian Mills.....	Maximum	77	80	77	74	73	89	73	66	79	86	95	92	79	82	78	71	78	69	70	76	73	83	81	75	85	86	87	87	85	88	80.0	
	Minimum	47	55	63	47	37	53	56	55	54	60	61	70	62	61	52	50	60	56	46	54	41	48	40	50	60	65	63	69	67	67	55.6	
Jersey City*.....	Maximum	74	77	72	67	61	85	68	54	78	74	83	89	71	72	75	72	71	64	74	69	70	79	74	63	79	80	85	83	78	80	74.0	
	Minimum	52	58	55	52	49	55	54	52	50	60	64	70	60	60	64	58	56	57	56	56	54	55	58	52	57	64	64	67	69	68	58.2	
Lakewood.....	Maximum	78	80	79	75	69	90	80	59	78	84	92	92	87	83	80	75	78	75	75	73	70	80	77	68	85	86	85	87	83	85	79.7	
	Minimum	49	57	66	49	39	53	55	54	53	56	60	68	61	60	62	56	50	58	50	54	46	49	47	57	62	60	65	69	67	67	56.6	
Lambertville.....	Maximum	73	76	76	70	72	87	68	58	81	85	85	88	88	73	74	78	77	74	73	71	81	77	74	82	80	88	85	85	85	85	77.9	
	Minimum	48	56	62	56	42	56	58	54	54	62	56	66	60	59	60	64	49	58	56	47	53	46	57	56	63	62	69	68	68	68	56.5	
Layton.....	Maximum	76	77	73	72	73	88	69	60	77	86	92	84	77	78	74	71	79	68	74	76	78	83	85	80	82	81	88	87	88	90	78.9	
	Minimum	40	56	55	38	37	56	60	53	50	53	62	61	46	53	55	52	45	55	42	47	46	45	48	46	54	57	55	53	54	54	50.9	
Little Falls.....	Maximum	78	79	76	76	70	87	81	72	82	83	92	89	77	79	75	77	78	67	76	73	82	83	79	65	83	81	90	90	87	88	79.8	
	Minimum	54	56	66	48	43	55	64	41	52	54	60	66	56	58	61	53	49	58	56	49	53	48	53	49	55	56	61	61	55	68	55.3	
Long Branch*.....	Maximum	76	75	77	68	65	87	70	56	76	80	86	90	69	77	79	73	74	68	74	70	70	79	73	62	85	85	84	85	82	82	75.9	
	Minimum	52	60	59	51	43	55	53	53	53	54	61	64	61	61	64	58	52	58	57	52	56	51	53	49	57	64	65	66	68	69	57.3	
Long Valley.....	Maximum	76	78	73	72	72	85	67	58	78	85	90	87	72	78	75	71	76	67	74	75	74	80	80	63	80	83	90	86	85	88	77.3	
	Minimum	41	49	61	41	38	49	61	52	51	51	59	60	55	56	57	50	45	55	52	47	50	44	54	45	52	58	56	67	64	64	52.4	
Millville.....	Maximum	74	78	76	72	71	86	78	70	78	82	89	92	83	78	77	70	78	72	76	79	72	87	77	77	85	83	85	84	84	84	79.3	
	Minimum	52	61	60	48	42	57	56	56	56	62	66	72	63	65	64	56	61	60	55	56	50	51	45	60	65	65	66	70	69	69	59.1	
Moorestown*.....	Maximum	75	80	76	74	74	86	73	61	79</																							

OCT 27 1947

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION

A. E. WHITE.

TRENTON, N. J.

VOL. LII.

JULY 1947

No. 7

GENERAL SUMMARY

Temperature for July averaged normal for the State. Most interior stations had only 3 or 4 days with maxima of 90° or higher while on the Sea Coast there were none. Most stations recorded their highest temperatures for the month on the 30th, but other hot days were the 1, 6, 7, 13 and 14th. There was a cool period from the 19th to 25th when readings remained below normal, and several stations reported minima in the upper forties on the 24th.

Rainfall averaged 92 percent of normal for the State. There was great variation in different localities, however, with monthly totals ranging from 1.29 inches at Cape May to 9.19 inches at Phillipsburg. In general, rainfall diminished from north to south, but with local exceptions. Atlantic City had only 1.71 inches while at Pleasantville, slightly inland six miles to the west, 6.22 inches was recorded. All of the Highland area of the north received considerably more than normal rainfall. It was the second month in succession that Phillipsburg reported the greatest monthly amount in the State; the total there for the two months of June and July was 17.34 inches. Rainfall was well distributed throughout the month and with the exception of a few localities mainly in South Jersey, it was sufficient for crop needs. Thunderstorms occurred on 21 days in some portion of the State, but there were no destructive windstorms and no damage of importance by hail.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 45 stations, was 73.8°, which was 0.1° below normal. The highest temperature was 96° at Newark and Runyon on the 30th, and the lowest, 44° at Charlotteburg on the 24th. The highest monthly mean temperature was 76.2° at Burlington, and the lowest, 70.3° at Layton. The temperature departure from the normal for the year 1947, to date, for the State is -0.2°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 62 stations, was 4.27 inches, which was 0.43 of an inch below normal. The greatest monthly precipitation was 9.19 inches at Phillipsburg, and the least, 1.21 inches at Cape May. The greatest amount of precipitation in any 24 consecutive hours was 3.29 inches at Runyon on the 15-16th. The average for the Highlands was 6.66 inches; for the Red Sandstone Plain, 4.07 inches; for the Southern Interior, 3.79 inches; and for the Sea Coast, 3.27 inches. The precipitation accumulated departure from the normal for the year 1947, to date, by sections, is: the Highlands, +6.52 inches; Red Sandstone Plain, +1.37 inches; Southern Interior, +0.03 of an inch; Sea Coast, -3.65 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 12, 21.

THUNDERSTORMS: 1, 2, 4, 5, 7, 9, 10, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 27, 28, 30, 31.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7-30 a. m.	1-30 p. m.	7-30 p. m.			
Atlantic City.....	30.37	25	29.71	19	14.0	31	s.	7	84	74	81	69	0	0
Long Branch.....	30.38	25	29.69	19	10.6	32	nw.	1	83	66*	78	66	0	0
Newark.....	30.38	25	29.66	19	.....	35	n.	1	79	55	69	.....	0	0
Trenton.....	30.38	25	29.67	19	8.2	30	s.	17	80	57*	.....	62	0	0

* Noon

COMPARATIVE DATA FOR JULY

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	75.2	100	44	3.50	0	.....	.....	.....	.....
1886.....	73.0	98	48	4.91	0	.....	.....	.....	.....
1887.....	77.1	102	54	7.67	0	11	.....	.....	.....
1888.....	71.1	95	46	3.50	0	9	.....	.....	.....
1889.....	73.4	95	48	10.19	0	14	.....	.....	.....
1890.....	72.5	101	39	5.62	0	9	12	.....	8
1891.....	70.1	95	43	5.30	0	12	10	11	10
1892.....	74.3	105	44	4.03	0	8	12	14	5
1893.....	73.9	102	40	2.72	0	8	14	13	4
1894.....	75.7	106	44	1.66	0	6	14	12	4
1895.....	70.9	99	41	4.26	0	10	12	12	5
1896.....	75.0	98	47	5.50	0	13	13	10	7
1897.....	74.1	102	50	11.42	0	15	10	11	10
1898.....	75.3	107	38	4.96	0	10	11	13	7
1899.....	74.7	98	38	5.75	0	11	13	11	7
1900.....	75.9	104	42	4.74	0	11	15	12	4
1901.....	77.3	107	45	5.87	0	14	9	13	9
1902.....	73.0	100	43	4.78	0	13	10	12	9
1903.....	73.3	100	38	5.51	0	12	16	10	5
1904.....	72.3	98	42	4.87	0	13	13	10	8
1905.....	74.4	102	42	4.06	0	12	12	13	6
1906.....	72.8	94	46	5.58	0	12	11	14	6
1907.....	73.6	96	40	2.62	0	8	8	12	11
1908.....	75.6	106	42	4.70	0	9	12	13	6
1909.....	71.6	99	36	2.19	0	5	14	14	3
1910.....	75.3	99	42	1.36	0	5	12	12	7
1911.....	76.0	104	42	3.64	0	8	12	12	7
1912.....	73.7	100	36	3.86	0	9	14	10	7
1913.....	74.4	100	41	2.52	0	8	20	9	2
1914.....	71.5	97	40	6.05	0	15	9	11	11
1915.....	72.8	98	44	5.31	0	14	10	13	8
1916.....	74.4	97	45	5.40	0	12	11	9	11
1917.....	74.2	104	46	4.83	0	12	10	11	10
1918.....	72.2	104	39	3.93	0	8	17	9	5
1919.....	73.5	103	43	8.39	0	14	14	7	10
1920.....	71.7	96	42	5.76	0	11	17	10	4
1921.....	76.5	99	43	3.62	0	10	14	9	8
1922.....	73.0	98	44	5.79	0	13	13	9	9
1923.....	71.9	102	40	3.88	0	11	15	8	8
1924.....	71.6	98	41	2.59	0	6	19	8	4
1925.....	72.0	99	39	7.37	0	13	15	9	7
1926.....	73.0	105	40	5.46	0	12	16	7	8
1927.....	72.7	99	36	6.06	0	11	13	10	8
1928.....	74.2	96	41	6.86	0	12	16	8	7
1929.....	73.0	102	33	1.64	0	6	17	9	5
1930.....	74.3	105	42	3.98	0	10	16	9	6
1931.....	76.6	102	50	4.24	0	11	13	10	8
1932.....	73.8	98	41	2.76	0	8	19	8	4
1933.....	73.4	105	41	3.73	0	8	16	8	7
1934.....	75.8	100	43	3.65	0	9	16	9	6
1935.....	76.0	101	40	4.66	0	10	14	11	6
1936.....	74.6	110	40	2.47	0	8	17	8	6
1937.....	74.6	103	43	2.83	0	9	17	8	6
1938.....	74.7	98	43	8.84	0	16	11	10	10
1939.....	73.4	98	38	2.33	0	8	14	10	7
1940.....	73.9	104	40	2.73	0	9	15	9	7
1941.....	73.8	105	41	6.40	0	15	12	8	11
1942.....	74.6	105	41	7.30	0	12	13	10	8
1943.....	74.2	97	39	4.21	0	10	14	9	8
1944.....	75.6	101	43	1.44	0	6	17	10	4
1945.....	73.3	99	36	9.32	0	15	8	8	15
1946.....	73.2	98	40	5.91	0	6	16	7	8
1947.....	73.8	96	44	4.27	0	11	13	9	9
Period.....	73.9	110	33	4.70	0	10	14	10	7

Climatological Data for July 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches						No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy			
Atlantic City	Atlantic	8	74	72.8	+0.7	87	31	60	24	1.71	-2.22	0.40	21-22	0	12	11	5	15	s.	U. S. Weather Bureau.	
Belleplain	Cape May	49	53	75.2	+1.5	93	13†	55	26	5.17	+0.98	2.20	17	0	7	15	9	7	s.	Mrs. Edward C. Hoffman.	
Belmar	Monmouth	19	6							5.49		1.40	28	0	11				se.	City Water Dept.	
Belvidere	Warren	289	55	74.4	+0.6	94	30	52	24	5.65	+0.77	1.24	19	0	13	14	5	12		Miss C. S. Hixson.	
Berlin, 1 mile W.	Camden	70	6							3.49		1.75	19	0	7				sw.	Samuel H. McCulley.	
Boonton	Morris	280	57§	71.8	-0.5	92	30	52	24	4.95	+0.61	1.71	22	0	16	17	5	9	sw.	J. C. Water Works.	
Bridgeton	Cumberland	30	64	75.3	-1.2	94	30	56	24	1.48	-2.85	0.48	8	0	10	19	9	3	sw.	Bennett K. Mailack.	
Brooklawn	Camden	30	6							1.90		0.63	17	0	7					C. D. Scott.	
Burlington	Burlington	12	61§	76.2	+0.2	93	6	54	24	5.07	+0.57	1.30	21-22	0	12	18	4	9	w.	Public Service E. & G. Co.	
Canoe Brook†	Essex	180	17	72.2	-0.2	93	30	48	24	5.09	+0.53	1.39	7-8	0	14	19	4	8	sw.	N. J. Dept. of Conservation	
Cape May	Cape May	17	59	74.4	+0.9	91	30	58	4	1.21	-1.32	0.46	28	0	6	18	11	2	s.	Richard F. Umfrid, Jr.	
Charlotteburg†	Passaic	760	55	70.4	0.0	90	30	44	24	5.24	+0.58	1.43	22-23	0	13	7	9	15	w.	Newark Water Dept.	
Chatham	Morris	185	43							4.22	-0.49	1.24	22	0	12	13	15	3		Edward P. Molitor.	
Chatsworth	Burlington	90	7	73.6		91	6†	48	24	6.34		2.78	17	0	6					Alfred L. Stevenson.	
Clayton	Gloucester	120	34	74.8	-0.4	94	30	54	24	3.08	-1.48	1.55	18-19	0	10	14	13	4	sw.	Harry P. Campbell.	
Clinton	Hunterdon	300	4							5.21		1.52	7-8	0	15	15	5	11	sw.	L. W. Klockner.	
Culvers Lake†	Sussex	760	46							6.83	+2.36	1.35	1	0	13					L. S. Depue.	
Elizabeth	Union	33	63	74.8	-0.6	95	30	53	24	3.48	-1.47	1.40	21	0	13	18	4	9	ne.	Union County Park Comm.	
Flemington, 2 mi. NE.	Hunterdon	134	61§	74.8	-0.2	95	30	52	24	4.51	-0.58	0.91	21-22	0	13	19	5	7	w.	Hiram E. Deats.	
Freehold	Monmouth	194	43§	74.2	-0.4	93	30	54	4†	5.93	+1.24	2.30	10	0	13	10	8	13	sw.	Moreau Plant Co.	
Hammoncton	Atlantic	95	41§	76.0	+0.2	95	14†	53	21	4.79	+0.21	3.25	21	0	6	17	9	6	sw.	J. G. Wilson.	
Hightstown	Mercer	100	54	73.8	-0.4	93	6†	52	21	4.53	-0.31	1.32	9	0	12	13	9	9	sw.	James R. Pickering	
Indian Mills†, 2 mi. W.	Burlington	100	58	73.6	-1.0	92	14	48	24	3.98	-0.52	1.42	21-22	0	8	10	13	8	s.	Edward Entwistle.	
Jersey City	Hudson	135	49	75.2	-0.7	94	30	58	3	2.70	-1.58	0.98	8	0	6	15	8	8	sw.	J. C. Water Dept.	
Lakewood	Ocean	54	43	74.6	+1.0	94	7	51	21	3.80	-0.67	0.92	19	0	10	6	15	10	sw.	R. W. Holman.	
Lambertville	Hunterdon	75	60	72.8	-1.4	91	30	50	24	5.88	+1.13	1.57	21-22	0	15	19	7	5	s.	George Bailey.	
Layton†, 3 miles NW.	Sussex	450	46	70.3	-0.9	91	1	46	24	8.98	+4.55	1.54	7-8	0	13	12	6	13	sw.	A. M. Depue.	
Little Falls	Passaic	157	14	73.6	-0.5	93	30	51	21	4.49	+0.07	1.64	21-22	0	13	10	16	5	ne.	Passaic Valley Water Co.	
Long Branch	Monmouth	34	39	73.9	+0.8	89	14†	55	24	5.26	+0.67	1.62	18-19	0	13	13	10	8	s.	Storm Warn. Display Sta.	
Long Valley	Morris	660	17	71.0	-0.5	91	30	46	24	5.33	-0.13	1.60	21	0	14	12	15	4	sw.	Arthur Barkman.	
Marlton, 1 mile W.	Burlington	90	6							3.28		1.32	19	0	10	15	5	11	s.	David Griscom.	
Mays Landing	Atlantic	50	3							5.45		1.90	21-22	0	11	16	12	3	sw.	Elmer Earle.	
Millville, 2 mi. SW.	Cumberland	60	7	74.8		94	30	56	23†	1.99		0.58	7	0	9	3	17	11	s.	Millville Airport.	
Moorestown	Burlington	62	34	73.6	-1.2	91	30	52	24	2.75	-1.79	0.66	19	0	12					Japanese Beetle Laboratory	
Morris Plains, 1 mi. W.	Morris	400	6	72.4		92	30†	48	24	4.70		1.07	22	0	13	17	4	10		James C. Long.	
Newark	Essex	11	93	75.5	+0.7	96	30	55	24	2.25	-2.46	0.33	7-8	0	10	7	11	13	sw.	U. S. Weather Bureau.	
New Brunswick	Middlesex	99	93	73.6	-0.5	90	30†	52	24	6.01	+1.14	2.16	14-15	0	13	12	6	13	se.	N. J. Experiment Station.	
New Milford†	Bergen	12	29							3.25	-1.88	1.03	22	0	10					Hackensack Water Co.	
Newton	Sussex	769	64	71.0	-1.6	91	30	47	24	5.65	+1.00	2.16	1	0	13	10	20	1	se.	Charles M. Wheeler.	
Orange†	Essex	140	7							3.54		1.16	22	0	10					County Engineer.	
Paterson	Passaic	100	76	73.8	-0.8	94	30	54	24	4.32	-0.44	1.43	22	0	10	11	9	11	w.	J. W. Cook.	
Pemberton	Burlington	60	18	73.9	-2.1	92	30	50	24	5.62	+1.40	1.63	21-22	0	14	15	9	7	sw.	Charles A. Doeblert.	
Phillipsburg	Warren	182	64§	70.8	-3.1	90	30	49	24	9.19	+4.32	3.06	13	0	14	14	5	12		Town Engineer.	
Plainfield	Union	120	59	74.0	0.0	94	30	51	24	3.31	-2.29	1.09	7-8	0	8	10	10	11	sw.	S. K. Pearson.	
Plainsboro	Middlesex	110	6							3.01		1.53	21-22	0	7					Walker-Gordon Lab.	
Pleasantville†	Atlantic	8	49	73.4	+0.1	93	30	49	24	6.22	+2.15	1.78	21-22	0	10	16	8	7	s.	N. J. Dept. of Conservation.	
Rahway	Union	20	8							3.67		1.16	22	0	12	14	10	7	sw.	Louis Fontenelli.	
Ridgefield	Bergen	80	30	74.3	+0.4	94	30	52	24	3.61	-1.00	1.10	8	0	9	11	13	7	se.	George P. Kirsten.	
Runyon†	Middlesex	18	24	74.8	+1.7	96	30	54	25	6.82	+2.13	3.29	15-16	0	11	18	12	1	w.	N. J. Dept. of Conservation	
Rutherford	Bergen	51	3	74.3		95	30	53	24	3.56		1.15	7-8	0	13	10	5	16	s.	Harold Scott.	
Sandy Hook	Monmouth	22	49	75.4	+1.9	91	13	61	20	2.70	-2.42	0.65	19	0	14	6	18	7		U. S. Coast Guard.	
Somerville	Somerset	65	64	74.1	+0.1	93	30	50	24	4.38	-0.70	1.03	15	0	13	14	5	12	w.	William E. Haver.	
Sussex	Sussex	450	52	71.8	-0.6	90	1†	49	24	6.38	+1.81	1.35	8	0	11	12	2	17	sw.	Marshall Hunt.	
Toms River	Ocean	33	26							5.04	-0.20	1.20	22	0	12					Robt. F. Snyder.	
Trenton	Mercer	56	75	75.1	+0.6	92	30	50	24	2.05	-1.89	0.73	21-22	0	13	7	10	14	s.	U. S. Weather Bureau.	
Treuton No. 2	do.	105	17	75.4	-0.1	93	30	55	24	2.23	-2.47	0.69	19	0	13					Edward H. Ristow.	
Tuckerton	Ocean	23	54	74.4	+0.1	93	30	48	25	2.19	-1.77	0.82	19	0	9	17	5	9	sw.	John H. Brown.	
Vineland	Cumberland	110	67							1.74	-2.71	0.48	19	0	8	14	13	4	s.	Robert Jones.	
Westfield	Union	135	8							5.54		2.02	22	0	10	16	11	4	sw.	Town Engineer.	
Woodcliff Lake†	Bergen	103	29							3.96	-0.14	1.24	22	0	11					Hackensack Water Co.	
Woodstown, 2 mi. N.	Salem	16	0	74.1		93	30	53	23	2.64		0.93	19	0	9	10	10	11		J. De Geus.	
New York, N. Y.		10	77	74.4	+1.4	92	30	61	3	2.72	-1.52	0.87	7-8	0	12	6	13	12	sw.	U. S. Weather Bureau.	
Philadelphia, Pa.		26	77	76.0	-0.2	92	30	61	23	2.49	-1.66	0.71	19	0	9	11	6	14	s.	U. S. Weather Bureau.	
For the State				73.8	-0.1	96	30	44	24	4.27	-0.43	3.29	15-16	0	11	13	9	9	sw.		

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T.. Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

ERRATA FOR 1945, MONTHLY AND ANNUAL

August: Charlotteburg total rainfall 5.46 (+0.83), annual 62.69 (+13.21); Indian Mills same 4.57 (-1.22), annual 48.98 (+2.05); New Brunswick same 2.67 (-2.34), annual 51.96 (+5.97); Bridgeton mean monthly temperature 72.6 (-2.1). September: Berlin total rainfall 3.45, annual 53.69. October: Clinton total precipitation 1.89, annual 56.21; Pleasantville same 2.12 (-1.85).

ERRATA FOR 1946, MONTHLY AND ANNUAL

January: Tuckerton mean temperature 34.0 (+0.1). February: Burlington total precipitation 2.29 (-0.97), annual 35.21 (-10.93). April: Charlotteburg total precipitation

2.03 (-2.11), annual 44.53 (-4.95); Sweedesboro same 1.54; Morris Plains mean temperature 49.1. May: Bridgeton greatest 24-hour precipitation 1.23 on 27-28; Millville same 2.26; Newton mean minimum temperature 47.6; Toms River total precipitation 6.25 (+2.16), annual 41.75 (-9.01). July: Charlotteburg prevailing wind direction west; Millville days with .01 or more precipitation, 4. August: Canoe Brook maximum temperature 91° on 29; Runyon minimum temperature 41° on 25. September: Somerville monthly minimum temperature 41° on 16. October: Newton total precipitation 2.40 (-1.26), annual 35.37 (-8.95); Somerville same 1.70 (-1.69), annual 33.11 (-12.40); Rutherford days with .01 or more precipitation, 6. November: Sandy Hook days with .01 or more precipitation, 6.

Daily Precipitation for July 1947

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast		.04					.06	.05	.18		.01					.11	.24		.34		.06	.34						.27		.01	T.	1.71	
Bass River	do.		.01		.10				.71			.63	.01				T.	.25		.70			.83						.20				3.44	
Belleplain	Tuckahoe								.45	.08								.20		.82	T.		.94						.57		.11		5.17	
Belmar ²	Coast	T.	T.					.42	.1	.01	.88	.34		.02	.06	T.	.41	.61	T.	.70			.64						1.40	T.	T.		5.49	
Belvidere	Delaware	1.10		T.	T.			.66	.63	.24				.58		.02	.20	.06	.22	1.24		T.	.42						.24			.04	5.65	
Berlin ³	Mullica								.69		.07						.03			.13	1.75		.42								.40		3.44	
Boonton ³	Passaic	.59						.03	1.26	.07	.03	.02			.02	.61	.09	.08	T.	.32	.03		1.71	.04					.02	.03		T.	4.95	
Bridgeton	Delaware	.09			.02			.09	.48	.04	T.						.05			.63		.50							.11				1.48	
Brooklawn	do.								.27	.07						.05				.63		.50								.26			1.90	
Burlington	do.				.15			.10	.30	.55					.20	.55		.40	.12	.01	.34	.12		1.30					.02	.47	.10	.10	5.07	
Canoe Brook ³	Passaic	.52						1.39	.11	.04						.15	.40	.12	.01	.34	.12		1.02	.80					.02	.05			5.09	
Canton ³	Delaware	T.						1.58	T.	T.						.01	.03	.25	.20	.12		.09							.15		.02		2.45	
Cape May ¹	Coast	.05						.08	.14								T.		.29			.19							.46				1.21	
Charlotteburg	Passaic	.90						1.14	.01							.37	.05	.70	.13	.36		1.23	.20					.06	.03		.06	5.24		
Chatham ³	do.	.55						1.05	.11	T.					.04	.06	.12	T.	.34	.11		1.24	.56					.01	.03			4.22		
Chatsworth	Coast							1.40	.06							.26	.78		.81			1.03											6.31	
Clayton	Delaware							.01	.44	.11						.09	.61		1.08	.47	.03	.19							.05		T.		3.08	
Clinton	Raritan	.27			.01	T.		.52	1.00	.24	.09			.87	.09	.18	.09	.40	.59	T.	.27		.58						.01				5.21	
Culvers Lake	do.	1.35						.85	1.30	.10	T.			T.	.50	.15	.14	.55	.05	.78		.40							.56			.10	6.83	
Elizabeth	Coast	.28						.95	.01	.03	T.			T.	.04	.28	.73	.04	.17	.46		1.40	.08	T.					.01				3.48	
Essex Fells ³	Passaic	.52						1.16	.70						.15		.30	T.	.17	.07		1.55	.73							.10			5.46	
Flemington	Raritan	.45		T.				.30	.83	.40	.15			.45	.05	.43		.21	.02	.21		.91							.10			T.	4.51	
Freehold	do.	.04						.60	T.	2.30	.01			T.	.07	T.	.19	.77	.01	1.11	.02		.58						.17	.06			5.93	
Hammononton	Mullica							.30		.11							.03		.37			3.25								.73			4.79	
Hightstown	Raritan	.05						.67	1.32	T.	T.			.05	.39	.29	T.	.20		.66	.03	.70							.05	.12		T.	4.53	
Indian Mills	Mullica		T.		T.			T.	.52	.18						.15			.83	.05	10.13	.32	.70								.83	T.	3.98	
Jersey City ²	Coast	.40	T.					.98			.02						.42		.37		T.	.51											2.70	
Lakewood	Metedeconk							.78		.45	T.				.27		.20	.50	.02	.92		.60							.04	.02			3.80	
Lambertville	Delaware	.05	.01		T.			.93	.42	1.26	.31			.07	.19		.13	.40	.43	.01		1.57							.06		.04	T.	5.88	
Layton	do.	.91						1.18	1.54	.18		.02			.73	.25	.09		1.22		.06	.81							.80			.19	8.98	
Little Falls ³	Passaic	.48						1.05	.06	.01					.09	T.	.62	.12	.03	.24	.01		1.36	.28									.02	4.49
Long Branch ²	Coast	.01		T.				.23	.18	T.	.37	.03		.02	.09	T.	.46	.32	.03	1.59		.88										T.	T.	5.26
Long Valley ³	Raritan	.42	.05					1.10	.08	.34	.12			.03	.10	.33	.50	.05	.26	.35	1.60												5.33	
Manville ²	do.	.50	T.					.10	.36	.36	T.			.05		1.32		.12		.25		.05	.33						.34				3.78	
Marlton	Delaware							.53	.33					.25	T.	.08	.02	.04	1.20	.12		.30									.41		3.28	
Mays Landing	Gt. Egg Harbor	.03						.55	.07		.01						.92	.03	.87			1.80	.10						.22				5.45	
Midland Park ²	Passaic	.74						1.29							1.09		.29		.20			1.16							.06			.01	4.55	
Millville (Arpt.) ²	Maurice	.02	.04					.58	T.	.08		T.	T.			.29		.20		.32	.03	.21							.12				1.99	
Moorestown ³	Delaware							.38		.33	.03	.03			.45	.03		.06	.03	.63		.21								.44	.13		2.75	
Morris Plains	Passaic	.50						1.05	.36	.03					.30	.14	.16		.51	.17	T.	1.07	.02						.07			.02	4.70	
Newark ¹	Coast	.41	T.					.18	.65		.04	T.			.05	.01	.05	.29	T.	.28		.29											2.25	
New Brunswick	Raritan	.75						.87	.12	.02	T.			.66	2.16	.03	.14	T.	.20	.12		.76	.16						.02	T.		T.	6.01	
New Milford ²	Hackensack	.62	.02					.69	.07							.30	.08		.32			1.03							.10			.02	3.25	
Newton ³	Delaware	2.16						1.40	.10	.02						.05	.06	.21	.03	.68	T.		.38	.08					.46	T.		.04	5.65	
Orange ¹	Passaic	.25						.22	.75			.05		.09			.05	.26		.70		1.16										.01	3.54	
Paterson ²	do.	.72						T.	1.00		.01	T.		T.	T.	.65	.05	.08	.16			1.43							.18			.04	4.32	
Pemberton	Delaware				.01			.36	.53	T.					.03	.68	.01	.80	.23	1.10	.13	T.	1.63						.01	.08	.02	T.	5.62	
Phillipsburg	do.	.45	T.		T.	T.		.35	.56	.23	.10	T.	T.	3.06	.43	1.91	.05	.38	.60	.26		.64							.17				9.19	
Plainfield	Raritan	.22						T.	1.09	.02	T.				T.	.46	T.	.39	T.	.40		T.	.72							.01		T.	T.	3.31
Plainsboro	do.	T.						.24	.20	.60	.04				.15					.25		1.53											3.01	
Pleasantville ³	Coast	.02						.16	.03	.02		.01							3.07		.55									.55	.03		6.22	
Rahway ²	Hackensack	.20						* 1.00	*	.07					.04	.10	.05	.60		.25		1.16								.20			T.	3.67
Ridgefield	do.	.52						1.10	.14	.01					.01		.50	.58	T.	.31		.44											.02	3.61
Ringwood ³	Passaic	.54			.06			.87	.07	.01						.17	.40	.19	.82	.42		2.24	.10											6.00
Runyon	Coast	.39						.96		.09				.06	.																			

Daily Temperatures for July 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum.....	78	86	71	80	80	77	76	78	76	75	79	81	79	78	79	78	76	72	74	74	73	80	76	83	80	76	78	79	87	87	78.2	
	Minimum.....	68	67	63	62	63	71	70	69	68	70	70	69	69	70	71	71	68	64	66	66	68	62	60	65	67	67	66	66	70	71	67.4	
Belleplain.....	Maximum.....	90	84	80	85	89	91	84	82	81	85	85	89	93	90	89	86	86	85	87	84	80	78	85	85	83	87	82	87	93	92	85.9	
	Minimum.....	67	66	65	62	66	66	66	67	65	68	58	60	67	68	70	64	68	69	64	69	56	65	57	69	71	55	60	70	66	65	64	64.6
Belvidere.....	Maximum.....	93	84	82	85	90	92	82	70	80	85	83	85	87	87	89	89	86	90	85	82	83	80	79	86	89	89	90	86	90	94	83	85.6
	Minimum.....	68	62	54	55	56	66	62	62	63	69	68	73	60	63	69	70	69	67	70	59	57	66	56	52	56	56	62	68	63	65	72	63.2
Boonton /.....	Maximum.....	89	80	80	81	85	88	83	69	80	80	80	81	85	88	83	82	86	85	80	81	79	78	76	83	86	84	85	83	86	92	83	82.6
	Minimum.....	64	63	54	58	54	63	60	61	59	64	66	63	61	64	67	66	65	64	59	55	58	61	52	55	56	55	64	66	61	65	60.9	
Bridgeton.....	Maximum.....	87	83	81	84	88	87	79	78	80	82	80	86	89	90	83	85	89	90	86	80	79	77	84	88	87	91	84	87	94	92	84.8	
	Minimum.....	68	66	60	59	61	67	69	65	65	65	70	67	63	70	73	72	72	72	72	64	61	65	57	56	58	60	65	72	67	73	65.8	
Burlington.....	Maximum.....	92	91	84	88	89	93	85	78	81	85	83	85	88	90	92	87	85	88	87	88	81	77	76	82	89	88	89	84	87	92	88	86.2
	Minimum.....	73	71	68	73	65	74	70	67	71	70	69	65	66	56	65	72	70	62	70	62	60	64	58	62	62	62	62	66	72	70	66.3	
Canoë Brook /.....	Maximum.....	90	83	82	84	88	88	83	69	81	81	80	84	88	90	82	84	87	88	81	80	78	78	78	84	87	87	87	86	88	93	87	84.1
	Minimum.....	64	62	49	49	51	64	61	68	61	65	62	57	60	64	71	71	63	71	58	55	60	57	48	52	53	60	66	58	58	69	60.2	
Cape May.....	Maximum.....	83	82	82	81	85	80	79	79	78	79	76	84	87	82	79	80	79	81	83	81	80	76	77	76	81	83	83	85	83	91	86	81.3
	Minimum.....	67	71	63	58	67	69	69	68	68	68	68	68	66	67	68	68	72	69	67	68	66	66	61	55	69	68	68	68	68	72	67.4	
Charlotteburg.....	Maximum.....	88	87	79	80	86	86	80	75	78	79	79	81	84	86	80	79	81	83	81	80	76	77	76	81	83	83	85	83	90	89	81.9	
	Minimum.....	59	58	61	56	50	61	60	59	61	63	64	62	56	61	61	70	68	69	69	67	68	62	56	55	55	48	49	48	56	58	58.9	
Chatsworth.....	Maximum.....	90	83	84	89	88	91	84	76	80	83	85	89	91	88	84	85	87	84	79	80	79	77	83	87	87	88	82	88	91	86	84.6	
	Minimum.....	67	67	51	63	55	61	65	66	62	68	67	59	65	71	70	68	69	69	70	62	56	55	55	48	53	56	62	70	62	62	62.5	
Clayton.....	Maximum.....	90	85	82	86	90	91	83	78	81	87	83	87	91	92	88	88	87	89	80	82	80	78	78	83	87	88	89	82	88	94	87	85.6
	Minimum.....	67	66	57	58	57	65	66	64	64	63	68	66	60	68	70	72	69	69	70	62	59	65	54	56	58	62	71	66	67	72	64.1	
Elizabeth.....	Maximum.....	92	88	84	85	90	89	85	73	83	79	82	82	85	90	91	88	88	89	84	84	82	78	78	86	90	90	89	89	95	87	85.8	
	Minimum.....	66	62	54	57	67	66	66	63	61	67	68	67	60	64	68	72	72	72	65	72	61	59	66	61	53	57	60	61	70	63	64	63.7
Flemington.....	Maximum.....	91	85	83	85	91	92	87	73	79	82	82	85	90	91	89	88	90	89	84	84	82	78	78	86	90	90	89	89	95	87	86.3	
	Minimum.....	66	64	55	59	56	65	65	63	62	69	69	64	60	63	68	70	69	65	69	60	58	66	69	62	66	59	60	70	63	65	73	63.3
Freehold.....	Maximum.....	88	85	87	85	89	90	85	74	82	83	80	83	88	88	87	82	86	87	85	80	78	77	83	87	87	87	87	82	87	93	90	84.7
	Minimum.....	66	65	55	54	57	64	64	66	67	66	68	62	66	66	66	69	70	67	69	60	58	64	59	54	58	60	62	69	62	66	73	63.6
Hammonton.....	Maximum.....	91	86	82	87	90	92	74	78	82	87	83	88	92	95	91	89	91	91	95	84	84	86	84	85	88	88	81	89	90	92	87.2	
	Minimum.....	69	68	55	56	58	54	65	66	66	66	70	68	61	69	72	73	71	71	64	60	62	61	58	58	60	63	73	69	71	67	64.9	
Hightstown.....	Maximum.....	92	84	81	85	90	93	87	72	83	82	81	85	89	89	88	86	88	88	80	82	80	77	78	84	87	88	87	81	88	93	87	85.0
	Minimum.....	67	64	53	53	55	63	65	64	61	65	68	65	61	65	66	70	69	67	67	59	59	55	52	57	58	62	69	61	64	72	62.7	
Indian Mills.....	Maximum.....	89	84	83	85	88	91	84	76	79	85	80	85	88	92	89	86	85	87	81	80	81	76	77	83	87	87	88	82	88	91	86	84.6
	Minimum.....	67	66	50	53	52	60	65	65	63	68	68	67	58	67	71	69	68	70	61	55	65	55	48	53	56	62	70	62	65	72	62.6	
Jersey City*.....	Maximum.....	87	86	82	84	89	84	79	74	80	78	78	86	80	88	79	82	82	87	80	84	78	76	79	86	89	89	89	86	90	94	91	84.1
	Minimum.....	70	65	58	59	62	70	68	64	64	69	70	68	65	66	70	72	70	68	64	65	66	64	60	62	65	66	70	68	68	72	66.4	
Lakewood.....	Maximum.....	89	85	80	84	89	90	94	76	81	82	79	87	89	89	86	83	86	80	80	81	77	79	84	88	89	89	81	88	92	89	85.0	
	Minimum.....	68	66	54	57	58	63	64	68	63	68	68	67	62	66	68	70	68	68	62	57	67	79	51	58	61	62	71	61	66	74	64.1	
Lambertville.....	Maximum.....	87	87	81	81	88	88	85	74	81	78	79	79	82	82	89	83	83	83	80	76	74	76	82	85	85	86	82	82	91	89	82.6	
	Minimum.....	67	63	52	53	54	64	60	69	69	64	69	64	69	70	73	71	66	68	61	59	66	56	50	54	57	63	70	63	64	71	62.9	
Layton.....	Maximum.....	91	80	80	82	85	87	80	68	79	82	79	83	86	86	84	81	84	85	82	81	78	78	82	85	84	86	85	86	90	85	82.7	
	Minimum.....	54	55	48	49	50	60	60	58	61	62	65	62	65	63	66	66	66	62	65	65	65	63	62	46	50	53	61	60	55	60	57.9	
Little Falls /.....	Maximum.....	90	84	84	84	89	84	82	74	83	81	80	84	87	90	83	83	87	87	88	83	80	79	78	84	87	87	87	85	88	93	85	84.6
	Minimum.....	65	62	56	55	55	65	63	61	63	66	67	66	61	63	66	71	70	66	71	69	58	66	60	51	56	56	63	69	61	62	62.6	
Long Branch*.....	Maximum.....	86	84	77	83	84	83	81	75	82	81	79	84	88	89	82	82	82	86	79	80	79	76	78	82	85	86	86	82	83	88	89	82.6
	Minimum.....	68	67	57	58	62	67	67	66	64	69	68	68	64	67	69	70	70	70	69	64	60	66	62	55	59	61	63	68	65	67	72	65.2
Long Valley /.....	Maximum.....	88	78	79	83	86	88	84	66	78	78	78	81	84	87	87	87	85	85	78	78	75	74	82	84	84	86	83	86	91	83	82.1	
	Minimum.....	64	61	50	55	52	62	60	62	61	62	65	63	57	62	65	67	60	68	68	57	52	64	53	46	52	52	56	60	61	70	59.8	
Millville.....	Maximum.....	87	85	81	83	87	87	80	79	80	84	79	84	88	91	86	84	87	88	79	82	81	78	76	83	85	86	89	82	86	94	87	84.1
	Minimum.....	66	64	58	58	60	67	69	67	66	69	67	64	70	73	72	71	72	69	65	61	65</											

51.05
V N J

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION

A. E. WHITE.
TRENTON, N. J.

VOL. LII. AUGUST 1947 No. 8

GENERAL SUMMARY

August temperature average for the State was the highest since 1939. There were not so many days with readings in the nineties but the humidity was high. In fact, the Trenton records show the highest midday average humidity for August since 1928, thus adding decidedly to the discomfort. The month began cool, with readings in the forties common on the 2d. There was a heat wave from the 12th to 16th, during which readings in the upper nineties were registered at most stations. There was also another short heat wave from about the 24th to 26th.

Rainfall showed unusual variation over the State. Rains were frequent after the first week and while the average for the State was less than normal, a good many stations had much more than normal amounts. Monthly totals ranged from 0.42 of an inch at Cape May to 10.19 inches at Hammonton. Eight stations had over 6.00 inches while nine stations had less than 2.00 inches. Generally speaking, soil moisture was adequate for the growth and maturing of crops. There were many thunderstorms but no destructive windstorms and no hail damage of importance.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 43 stations, was 74.7°, which was 2.7° above normal. The highest temperature was 100° at Paterson on the 13th, and the lowest, 42° at 2 stations on the 2d. The highest monthly mean temperature was 77.5° at Burlington, and the lowest, 71.8° at Newton. The temperature departure from the normal for the year 1947, to date, for the State is +0.2°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 61 stations, was 3.83 inches, which was 0.89 of an inch below normal. The greatest monthly precipitation was 10.19 inches at Hammonton and the least, 0.42 inch at Cape May. The greatest amount of precipitation in any 24 consecutive hours was 5.30 inches at Hammonton on the 26-27th. The average for the Highlands was 3.22 inches; for the Red Sandstone Plain, 3.68 inches; for the Southern Interior, 4.51 inches; and for the Sea Coast, 2.15 inches. The precipitation accumulated departure from the normal for the year 1947 to date, by sections, is: the Highlands, +5.15 inches; Red Sandstone Plain, +0.34 inch; Southern Interior, -0.45 inch; Sea Coast, -6.15 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HAIL: 26. HEAVY FOG: 9, 11, 13, 14, 15, 25, 28, 29.
THUNDERSTORMS: 7, 8, 9, 10, 13, 14, 15, 16, 17, 18, 19, 20, 26, 27, 30.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.32	11	29.80	1	13.3	35	ne.	27	87	77	87	65	0
Long Branch.....	30.32	11	29.80	26	6.3	25	ne.	26	89	70*	80	64	0
Newark.....	30.34	18	29.80	26	.....	31	ne.	26	84	60	77	.....	0
Trenton.....	30.33	11	29.81	26	7.0	41	n.	26	87	64*	.....	59	0

* Noon

COMPARATIVE DATA FOR AUGUST

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	71.7	95	40	6.11	0	.....	.....	.....	.....
1886.....	69.5	96	42	2.81	0	.....	.....	.....	.....
1887.....	70.4	94	42	3.76	0	.....	.....	.....	.....
1888.....	72.5	98	41	6.13	0	.....	.....	.....	.....
1889.....	69.6	91	45	5.13	0	.....	.....	.....	.....
1890.....	71.5	99	40	4.90	0	.....	.....	.....	.....
1891.....	72.8	100	46	5.32	0	13	8	15	8
1892.....	73.4	99	46	3.63	0	13	12	13	12
1893.....	72.8	98	38	5.52	0	9	14	11	6
1894.....	70.9	97	44	2.58	0	13	12	6	6
1895.....	74.2	102	34	2.53	0	13	12	3	3
1896.....	73.6	105	39	1.83	0	17	10	4	4
1897.....	71.0	91	41	4.39	0	9	14	12	5
1898.....	74.8	98	42	5.36	0	10	12	12	7
1899.....	72.3	99	39	4.36	0	9	10	12	9
1900.....	76.3	104	41	2.68	0	10	15	11	5
1901.....	73.8	98	44	9.43	0	11	12	10	9
1902.....	70.1	93	40	3.91	0	9	15	13	3
1903.....	68.4	98	39	6.95	0	13	10	10	11
1904.....	70.8	92	37	6.62	0	9	15	10	6
1905.....	71.1	95	38	5.72	0	12	13	10	8
1906.....	74.6	97	42	5.95	0	13	10	11	10
1907.....	70.5	96	39	3.45	0	10	14	12	5
1908.....	70.6	103	36	5.05	0	10	11	10	10
1909.....	70.2	100	34	4.59	0	6	14	9	8
1910.....	70.4	92	36	3.78	0	10	9	10	12
1911.....	72.1	101	39	8.91	0	11	10	11	10
1912.....	70.0	95	35	3.42	0	10	12	13	6
1913.....	71.7	100	38	4.06	0	10	18	9	4
1914.....	73.3	98	46	3.15	0	9	13	12	6
1915.....	70.9	98	41	7.73	0	13	11	11	9
1916.....	73.2	100	40	1.34	0	6	20	7	4
1917.....	74.0	103	42	2.21	0	8	18	9	4
1918.....	74.4	108	40	1.85	0	7	18	7	6
1919.....	69.9	98	38	6.89	0	13	13	10	8
1920.....	72.3	94	42	6.10	0	17	8	11	12
1921.....	69.8	97	38	4.32	0	9	18	7	6
1922.....	71.2	96	39	4.03	0	12	13	9	9
1923.....	70.8	98	35	2.44	0	8	17	8	6
1924.....	71.9	102	38	4.40	0	8	18	8	5
1925.....	71.0	93	35	2.10	0	7	20	6	5
1926.....	72.8	101	38	6.58	0	14	11	9	11
1927.....	67.1	89	37	8.55	0	12	11	9	11
1928.....	74.5	99	45	6.72	0	13	12	8	11
1929.....	69.8	97	39	2.58	0	9	16	8	7
1930.....	71.1	101	34	3.32	0	6	16	9	6
1931.....	73.5	101	45	5.10	0	12	12	8	11
1932.....	73.5	99	44	2.75	0	7	20	7	4
1933.....	72.7	101	45	10.53	0	14	12	9	10
1934.....	69.8	100	38	3.61	0	10	14	8	9
1935.....	72.4	98	36	2.57	0	8	14	10	7
1936.....	74.2	101	44	4.14	0	10	14	9	8
1937.....	75.2	100	45	6.82	0	14	14	7	10
1938.....	75.4	100	41	3.09	0	8	18	8	5
1939.....	75.3	98	50	7.03	0	11	11	9	11
1940.....	69.4	95	32	5.96	0	12	10	9	12
1941.....	71.0	97	34	4.06	0	9	20	7	4
1942.....	71.3	98	35	8.24	0	11	13	8	10
1943.....	73.2	99	39	2.16	0	6	18	8	5
1944.....	73.9	104	35	2.79	0	6	17	8	6
1945.....	71.2	97	40	4.37	0	8	16	8	7
1946.....	69.2	93	38	4.49	0	12	10	10	11
1947.....	74.7	100	13	3.83	0	9	13	8	10
Period.....	72.0	108	32	4.72	0	10	13	10	8

Climatological Data for August 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	74	74.6	+2.1	89	31	61	2	3.51	-0.98	2.02	26-27	0	7	12	8	11	e.	U. S. Weather Bureau.
Belleplain.....	Cape May.....	49	63	73.8	+1.4	95	14†	52	2	7.03	+2.55	3.03	20	0	6	19	4	8	s.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	6	73.8	+1.4	95	14†	52	2	1.61	+0.68	0.68	26	0	8	9	20	2	sw.	City Water Dept.
Belvidere.....	Warren.....	289	65	75.2	+3.8	95	13†	49	2	2.90	-1.92	0.64	17	0	8	13	9	9	s.	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	6	75.2	+3.8	95	13†	49	2	7.14	-1.82	1.82	26-27	0	9	19	3	9	ne.	Samuel H. McCulley.
Boonton.....	Morris.....	280	67§	72.6	+2.2	95	13	49	2	2.18	-2.27	0.84	10	0	7	15	5	11	ne.	J. C. Water Works.
Bridgeton.....	Cumberland.....	30	64	77.4	+2.6	96	15†	58	2	1.43	-3.21	0.79	27	0	7	16	7	8	sw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	6	77.4	+2.6	96	15†	58	2	3.75	-1.48	1.48	16-17	0	6	16	7	8	sw.	C. D. Scott.
Burlington.....	Burlington.....	12	61§	77.5	+3.1	97	23	56	2†	6.25	+0.88	2.25	27-28	0	8	18	6	7	e.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	17	73.4	+2.7	96	13†	50	2	5.78	+0.52	1.87	16-17	0	11	16	3	12	w.	N. J. Dept. of Conservation
Cape May.....	Cape May.....	17	59	77.0	+4.3	94	15	58	2	0.42	-4.12	0.31	17	0	4	17	10	4	ne.	Richard F. Umfrid, Jr.
Charlotteburg††.....	Passaic.....	760	55	72.2	+3.9	93	13†	42	2	3.06	-1.57	0.87	14	0	10	12	9	10	sw.	Newark Water Dept.
Chatham.....	Morris.....	185	43	72.2	+3.9	93	13†	42	2	5.17	+0.54	2.05	9-10	0	9	17	8	6	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	7	72.2	+3.9	93	13†	42	2	6.58	-1.77	1.77	26-27	0	8	19	4	8	.....	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	34	76.2	+2.9	97	14†	63	2	3.68	-1.46	1.42	27	0	7	15	13	3	sw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	4	76.2	+2.9	97	14†	63	2	3.32	-2.22	2.22	16-17	0	10	18	1	12	sw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	46	75.6	+2.2	99	15	54	2	1.98	-2.55	0.65	10	0	8	18	7	6	.....	L. S. Dupue.
Elizabeth.....	Union.....	33	68	75.6	+2.2	99	15	54	2	3.12	-1.25	1.59	16-17	0	11	17	2	12	ne.	Union County Park Comm.
Flemington, 2 mi. NE.....	Hunterdon.....	134	61§	76.0	+3.1	97	13†	51	2	3.23	-1.51	1.73	20	0	11	19	6	7	e.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	43§	74.6	+1.7	95	13†	50	2	3.89	+0.60	1.07	8	0	9	12	7	12	se.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	41§	75.4	+1.3	96	15	52	2	10.19	+6.50	5.30	26-27	0	9	12	9	10	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	100	54	74.1	+1.9	95	15	48	2	5.24	+0.60	2.11	16-17	0	10	10	12	9	se.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	58	74.2	+1.6	95	15	48	2	4.35	-1.39	1.22	7	0	11	12	8	11	sw.	Edward Entwistle.
Jersey City.....	Hudson.....	135	49	74.2	+1.6	95	15	48	2	3.63	-0.81	1.46	9-10	0	10	11	5	15	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	43	74.3	+2.7	96	15	50	2	6.24	+0.03	2.34	17	0	10	10	11	10	sw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	60	74.0	+1.7	94	16	48	1†	5.61	+0.98	2.36	8-9	0	12	18	7	6	sw.	George Bailey.
Layton††, 3 miles NW.....	Sussex.....	480	46	72.6	+3.9	91	13	42	2	2.29	-1.88	0.70	8	0	8	10	5	16	s.	A. M. Dupue.
Little Falls.....	Passaic.....	157	44	74.7	+2.6	98	13†	50	2	4.42	-0.37	1.81	16-17	0	8	8	19	4	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	39	74.0	+2.3	93	15	54	2	2.66	-2.15	0.65	26	0	9	14	8	9	ne.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	17	72.4	+3.0	94	13	45	2	5.04	+0.01	1.98	16-17	0	7	15	9	7	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	6	72.4	+3.0	94	13	45	2	3.00	-0.90	0.90	9	0	10	18	3	10	sw.	David Griscom.
Mays Landing.....	Atlantic.....	50	3	72.4	+3.0	94	13	45	2	2.16	-0.80	0.80	16-17	0	10	18	6	7	ne.	Elmer Earle.
Millville, 2 mi. SW.....	Cumberland.....	60	7	76.0	+1.8	94	15	59	1†	1.08	-0.48	0.48	17	0	8	16	3	12	ne.	Millville Airport.
Moorestown.....	Burlington.....	62	84	74.4	+1.8	94	15	52	2	4.17	-0.74	2.50	9	0	10	16	5	10	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	6	73.8	+1.8	94	13†	47	2	2.53	-0.92	0.92	16	0	9	16	5	10	.....	James C. Long.
Newark.....	Essex.....	11	93	75.6	+2.6	99	15	59	2	4.82	-0.10	2.03	16-17	0	8	10	8	13	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	99	93	74.5	+2.3	94	13†	52	2	2.85	-2.16	1.33	16-17	0	10	18	2	11	se.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	29	74.5	+2.3	94	13†	52	2	0.93	-3.61	0.34	9	0	7	18	2	11	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	64	71.8	+1.4	94	13	44	2	2.20	-2.18	0.72	8	0	8	8	16	7	sw.	Charles M. Wheeler.
Orange††.....	Essex.....	140	7	71.8	+1.4	94	13	44	2	2.48	-1.02	1.02	16	0	7	18	2	11	.....	County Engineer.
Paterson.....	Passaic.....	100	76	74.9	+2.6	100	13	52	2	2.50	-2.25	1.35	16-17	0	8	11	8	12	sw.	J. W. Cook.
Pemberton.....	Burlington.....	60	18	74.4	+0.1	94	15	52	2	3.73	-1.05	1.59	7-8	0	10	13	9	9	se.	Charles A. Doeblert.
Phillipsburg.....	Warren.....	182	64§	73.6	+1.9	93	13†	50	2	3.53	-1.07	2.04	16-17	0	9	12	9	10	sw.	Town Engineer.
Plainfield.....	Union.....	120	59	74.6	+2.7	98	15	53	2	4.23	-0.82	2.05	16-17	0	12	11	8	12	sw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	6	74.6	+2.7	98	15	53	2	8.80	-0.35	3.05	19-20	0	6	12	11	8	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	49	74.2	+2.1	95	16	50	2	6.63	+0.47	2.44	26-27	0	9	13	9	9	s.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	8	74.2	+2.1	95	16	50	2	2.44	-1.00	1.00	9-10	0	8	12	6	13	sw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	30	75.2	+3.2	97	15	51	2	1.25	-3.21	0.61	17	0	9	14	7	10	s.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	24	76.0	+4.3	96	13†	46	3	3.19	-1.53	1.81	16-17	0	6	17	10	4	w.	N. J. Dept. of Conservation
Rutherford.....	Bergen.....	51	3	75.5	+4.3	96	13†	46	3	1.97	-1.09	1.09	15-16	0	10	11	5	15	s.	Harold Scott.
Sandy Hook.....	Monmouth.....	22	49	75.6	+3.1	94	13†	62	17†	2.53	-2.45	1.21	9	0	8	7	16	8	ne.	U. S. Coast Guard.
Somerville.....	Somerset.....	65	64	75.0	+2.7	97	13	50	2	6.58	+1.77	2.27	9	0	9	11	9	11	w.	William E. Haver.
Sussex.....	Sussex.....	450	52	73.4	+3.3	95	13	46	2	4.72	+0.25	2.60	9	0	11	9	8	14	w.	Marshall Hunt.
Toms River.....	Ocean.....	33	26	73.4	+3.3	95	13	46	2	3.01	-2.70	0.90	26-27	0	7	17	10	11	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	76	75.1	+2.1	95	15	57	2	5.64	+0.89	2.61	16-17	0	11	10	10	11	s.	U. S. Weather Bureau.
Trenton No. 2.....	.....do.....	106	17	75.4	+1.9	95	15	55	2	7.68	+2.78	2.71	16	0	11	10	10	11	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	54	75.4	+2.7	95	15	50	2	4.27	-1.26	2.46	27	0	6	15	5	11	ne.	John H. Brown.
Vineland.....	Cumberland.....	110	67	75.4	+2.7	95	15	50	2	3.89	-0.85	2.11	16-17	0	4	13	9	9	s.	Robert Jones.
Westfield.....	Union.....	135	8	75.4	+2.7	95	15	50	2	1.85	-1.53	1.53	16	0	5	13	3	15	s.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	29	75.4	+2.7	95	15	50	2	2.83	-1.47	1.18	9	0	8	13	3	15	.....	Hackensack Water Co.
Woodstown, 2 mi. N.....	Salem.....	16	0	75.2	+2.7	95	16	55	2	2.23	-0.86	0.86	26-27	0	7	16	8	7	.....	J. De Geus.
New York, N. Y.....	.....	10	77	75.2	+2.1	94	15	61	1	8.77	+4.44	3.69	26	0	9	12	6	13	s.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	26	77	76.4	+1.6	93	15	61	2	7.15	+2.53	2.06	9	0	11	10	10	11	s.	U. S. Weather Bureau.
For the State.....	.....	.....	.....	74.7	+2.7	100	13	42	2	3.83	-0.89	5.30	26-27	0	9	13	8	10	sw.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for August 1947

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast							T.			T.						.10	.61	T.		.66	.07	T.				1.88	.14					3.51	
Bass River	do.							.46			.80						T.		*		.171							.14					5.55	
Belleplain	Tuckahoe																	1.01	.08		3.03	.05											7.03	
Belmar ²	Coast							.15	.03	.08	T.						.11	.34	T.		.05	.17					.68	T.	T.	T.			1.61	
Belvidere	Delaware							T.		.16							.14	.64			.54						.44	.02			.48		2.90	
Berlin ³	Mullica							.54	.04	1.52								.82	.05		.93							.13	.80			.62	7.14	
Boonton ³	Passaic							T.	T.	.43	.84	.02					.03	.71	T.									.13	T.			.02	2.14	
Bridgeton	Delaware								.11	.30	.02							.12			T.							.79	.06		.03		1.43	
Brooklawn	do.							T.		1.08								1.48			.44	T.						.54	.10		.11		3.75	
Burlington	do.						.20	.20	.90								.35				1.85							.75	1.50		.50		6.25	
Canoe Brook ³	Passaic						.20		.10	.32	1.52	.10					.03	1.87	.04		.27	.52											5.78	
Canton ³	Delaware									.21		.02					T.	1.08	.06		.08							1.16	.90	.02			3.53	
Cape May ¹	Coast																	.31			.07	.01						.03					0.42	
Charlotteburg	Passaic							.45	.09	.63							.87	.14	.56	.03	.23							.03					3.06	
Chatham ³	do.							.02	.24	2.05	T.						.05	1.55	.01		.45	.14					.65				T.		5.17	
Chatsworth	Coast							* 2.20	1.00	T.								.55			.16	.47						1.77					6.58	
Clayton	Delaware						.79		.05									.67	T.		.62	.02						T.	1.42	.11			3.68	
Clinton	Raritan						.02	.06		.27								.06	2.22	.02	.32	T.							.18	.03		.14		3.32
Culvers Lake	do.							.04		.65								.17	T.	.04	.23	.04						.50	.31		T.		1.98	
Elizabeth	Coast							.06	.22	.01	.42							.04	1.59	.01	.08	.11						.41	.17		T.		3.12	
Essex Fells ³	Passaic						T.			.12	2.75							.58	.93		.28									.20			4.86	
Flemington	Raritan							.02	.02		.23							.19	.67	.03	1.73	.03						.08	.06		.17		3.28	
Freehold	do.							.08	1.07	T.	.87						T.		.69	.04		.09	.19					.85			.01		3.89	
Hammon	Mullica							.97	T.	T.								.54	1.22		*	1.33	.06					5.30					10.19	
Hightstown	Raritan							.06	.12		.64							.03	2.11	T.	1.00	.08						.96	T.	.24		.06	5.24	
Indian Mills	Mullica							1.22	.25	1.10								.14	.76	.04	.30	.06						.05	.36	T.		.07	4.35	
Jersey City ¹	Coast							.02	.03	1.45	.01							.40	.83		.04	.03						.20	.62				3.63	
Lakewood	Metedeconk							.10	.73	.10	1.10							.23	.34	.12	.18	.25						.28		.04			5.24	
Lambertville	Delaware							.02	.16	2.36								.90	.89	.01	.84	.08						.12	.07		.15		5.61	
Layton	do.							.70	.27	T.								.05			.30							.64			.11		2.29	
Little Falls ³	Passaic							.03	.04	.05	1.20							.10	.81		.105							.14					4.42	
Long Branch ¹	Coast							.10	.52	.45	T.							.13	.28	T.	.48	.01	.04					.65			T.		2.66	
Long Valley ³	Raritan								.07	1.42								1.98			.25	.32						.80				.20	5.04	
Manville ²	do.							.15	2.00									1.10	.42		T.	1.15						.32					5.14	
Marlton	Delaware							.04	.15	T.	.90							.85	.05		.11	.07						.34	.03		.46		3.00	
Mays Landing	Gt. Egg Harbor							.20	.15		.21							.80	.01		.20	.18	.05					.35			.01		2.16	
Midland Park ¹	Passaic							.10	.19	.77	.02							.36	.38		.29	T.						.07	T.				2.33	
Millville (Arpt.) ¹	Maurice							T.	.01	.01								.48	T.		.23	.03						*	.30	T.			1.08	
Moorestown ³	Delaware							.10	.02	2.50								.32	.92	T.	.52	.01		.08	.01				.22	.01	T.		.70	4.17
Morris Plains	Passaic							.04	.28		.39								.32	.92	T.	.29	.11					.17			.01		2.53	
Newark ¹	Coast							.05	.13	.12								1.61	.43	T.	.10	.14						1.24	T.		T.		4.82	
New Brunswick	Raritan							.04	.15	.08	.60							.05	1.33	.04	.34	.02						.20			T.	T.	2.85	
New Milford ²	Hackensack							.04	.06	.34								.03	.27		.02							.15					0.93	
Newton ³	Delaware							T.		.05	.72							.39	.23		.28	.05						.42				.06	2.20	
Orange t.	Passaic							.09	.03	.43								1.02	.33		.25							.33					2.48	
Paterson ²	do.							.05	.04	.39								1.17	.18		.40	.02						.25	T.			T.	2.50	
Pemberton	Delaware							.33	1.59	.04	.02	T.							.38	.03		.68	.12	T.					.52	T.		.02	3.73	
Phillipsburg	do.							T.	.34	T.								2.04	T.		.09	.04						.26	.06			.58	.06	3.53
Plainfield	Raritan							.05	.08	.01	1.01							.05	2.05	.01	.42	.03						.48	.03	T.		.01	4.23	
Plainsboro	do.							T.	.23		.88							2.91			3.05							1.58		.15			8.80	
Pleasantville ³	Coast							.04	.02									1.34	.05	.02	1.58	.14						1.98	.46	.04			5.63	
Rahway ²	Rahway							.04	.20	* 1.00								*	.81		.07							.32					2.44	
Ridgefield	Hackensack							.04	.02		.31							.11	.61	T.	.01	.04		.01	.02			.05	T.				1.26	
Ringwood ³	Passaic							.04	.04	.63	.39							.05	.02	.11	.01	.04		.11	T.				.01			T.	1.43	
Runyon	Coast							.12	.21		.70							1.81			.16							.19					3.19	
Rutherford	Passaic							.04	.13	.19	.15							.28	.81		.15	.01						.18	.03			T.	1.97	
Sandy Hook ²	Coast							.04	T.	1.21	T.							.36	.36	.08	.06	.02						.40				T.	2.	

Daily Temperatures for August 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Atlantic City*.....	Maximum...	73	75	78	77	77	76	80	79	81	79	76	80	81	84	88	79	72	79	85	72	78	78	84	83	84	75	74	84	79	89	79.4		
	Minimum...	66	61	66	67	65	65	71	72	72	72	64	67	74	73	75	73	72	68	70	71	70	70	71	75	72	70	69	65	73	73	69.9		
Belleplaiu.....	Maximum...	78	81	84	80	83	83	84	82	83	83	84	85	91	95	95	94	91	77	84	91	76	83	84	90	77	80	74	80	83	88	84.3		
	Minimum...	63	52	56	60	55	54	60	62	62	67	55	56	58	69	72	72	70	68	67	70	68	62	61	60	68	66	70	67	60	62	66	63.2	
Belvidere.....	Maximum...	79	83	83	86	89	91	82	83	90	80	88	93	95	95	95	86	82	76	92	90	75	89	92	94	95	92	71	80	85	75	87	86.2	
	Minimum...	56	49	58	56	60	63	59	67	66	65	64	66	69	70	70	72	62	66	64	71	69	66	62	65	70	64	61	65	65	66	65	64.2	
Boonton/.....	Maximum...	76	79	80	83	87	88	86	76	88	73	87	88	95	91	92	86	70	78	90	85	78	88	89	90	91	91	68	74	84	75	85	83.6	
	Minimum...	56	49	53	55	55	58	57	64	64	65	61	56	58	68	69	69	65	63	59	63	66	64	61	68	64	62	61	57	64	65	61.5		
Bridgeton.....	Maximum...	79	83	85	85	87	89	85	85	90	84	86	90	93	94	96	95	90	77	86	91	76	87	90	94	95	96	87	87	88	84	87.8		
	Minimum...	64	58	60	65	60	61	69	69	66	67	64	64	70	72	71	73	70	69	67	74	69	68	65	65	72	73	69	65	64	66	64	66.9	
Burlington.....	Maximum...	86	83	83	84	87	91	85	80	88	88	88	90	94	95	92	92	91	91	91	87	73	88	97	94	93	94	93	68	75	86	79	92	88.5
	Minimum...	62	56	59	63	59	65	68	70	67	67	65	62	69	72	70	74	68	66	70	70	68	70	72	78	68	68	56	68	65	62	63	66.5	
Cauoe Brook /.....	Maximum...	78	79	81	83	87	88	87	73	86	74	87	92	96	94	96	88	70	76	92	89	77	87	90	93	94	93	94	93	68	75	86	79	84.6
	Minimum...	52	50	54	56	55	57	63	65	66	65	64	57	65	66	68	69	65	63	64	70	67	63	59	61	66	67	63	64	58	62	65	62.2	
Cape May.....	Maximum...	80	80	81	85	81	82	81	82	85	85	82	85	83	87	94	92	85	79	83	89	80	83	86	88	90	91	86	79	88	83	88	84.6	
	Minimum...	68	58	63	66	61	64	71	71	70	69	67	68	71	75	81	75	72	71	68	73	71	65	67	67	74	75	73	71	65	71	73	69.5	
Charlotteburg.....	Maximum...	89	78	78	81	86	85	86	82	85	75	85	90	93	92	91	90	83	78	90	89	75	86	89	91	93	92	83	72	82	83	85	85.1	
	Minimum...	56	42	48	51	53	54	50	62	63	61	59	55	68	63	64	67	63	62	60	71	60	62	56	70	61	63	59	59	55	59	62	59.3	
Chatsworth.....	Maximum...	80	84	82	84	89	88	76	88	89	83	87	92	95	97	97	97	90	75	85	89	74	87	89	93	94	96	84	76	89	82	88	87.1	
	Minimum...	62	53	58	61	57	60	66	68	65	66	63	61	70	70	68	72	69	62	66	72	67	67	74	64	70	70	67	63	62	65	68	65.4	
Clayton.....	Maximum...	81	81	83	84	88	87	88	81	89	79	88	93	97	95	99	92	79	77	91	87	77	89	88	95	96	94	72	75	88	78	92	86.5	
	Minimum...	58	54	58	60	61	61	64	68	67	67	62	60	68	69	70	73	64	64	64	71	65	65	63	63	68	70	65	66	67	66	68	64.8	
Flemington.....	Maximum...	80	85	83	87	89	87	87	81	90	85	89	92	97	94	97	90	88	80	92	91	76	89	94	96	97	94	74	76	88	81	89	87.7	
	Minimum...	58	51	58	59	60	61	63	68	65	65	62	63	69	68	70	71	67	65	64	72	66	65	64	64	68	70	65	65	62	63	65	64.4	
Freehold.....	Maximum...	80	79	82	82	86	84	86	84	86	86	82	88	95	92	95	91	80	74	88	86	76	85	88	92	93	92	85	73	84	80	87	85.2	
	Minimum...	60	50	59	59	60	60	66	67	65	65	60	60	68	70	69	72	65	63	64	69	65	66	63	63	69	70	67	64	62	64	64	64.1	
Hammoncton.....	Maximum...	79	83	85	83	83	86	86	87	88	86	88	92	93	94	96	95	75	78	84	86	72	87	88	92	93	91	74	74	88	89	89	85.9	
	Minimum...	59	52	54	59	64	69	67	57	66	64	63	61	65	71	71	75	65	66	63	65	70	66	63	63	71	71	69	65	68	63	69	65.0	
Hightstown.....	Maximum...	79	78	85	83	87	84	86	86	87	82	86	89	94	92	95	92	77	74	87	87	75	86	90	93	93	91	72	73	85	81	88	85.1	
	Minimum...	59	48	55	56	58	58	64	67	64	65	59	60	68	69	69	71	64	63	63	67	66	65	61	63	69	69	65	63	60	61	67	63.1	
Indian Mills.....	Maximum...	79	82	82	83	87	87	76	84	88	79	85	89	93	92	95	93	77	74	84	88	72	86	88	91	92	93	93	73	75	87	81	87	84.6
	Minimum...	62	48	56	57	55	54	66	68	65	66	61	58	69	69	68	72	69	66	65	69	67	65	61	61	70	68	66	64	60	62	68	63.7	
Jersey City*.....	Maximum...	60	56	64	64	64	66	66	70	66	66	62	64	70	72	74	71	65	63	66	67	66	65	67	69	72	71	64	66	67	69	66.4		
	Minimum...	42	29	40	40	44	44	43	47	48	47	48	48	52	56	56	53	49	48	52	56	59	62	66	69	70	72	83	70	85	81	89	84.2	
Lakewood.....	Maximum...	62	50	55	56	57	57	66	68	66	69	61	57	70	71	73	67	65	65	69	67	65	61	61	71	70	68	69	61	60	68	64.3		
	Minimum...	48	48	58	58	60	60	60	73	66	65	63	64	69	69	70	67	65	63	63	72	69	65	63	62	69	70	65	63	62	62	65	64.0	
Lambertville.....	Maximum...	75	80	81	82	86	90	85	82	87	80	87	91	94	92	92	78	80	78	93	84	91	88	90	92	91	88	72	77	83	78	85	84.9	
	Minimum...	48	42	52	55	57	61	52	65	65	65	62	60	65	66	65	65	66	62	60	68	63	62	58	62	63	64	58	54	60	65	60	60.3	
Layton.....	Maximum...	78	82	82	83	88	88	85	78	87	76	88	91	98	98	95	93	71	77	93	84	79	89	93	93	93	93	93	69	77	85	88	89	85.9
	Minimum...	57	50	55	58	59	60	60	69	67	67	64	60	68	69	69	72	53	63	64	73	67	65	63	64	64	71	63	63	60	65	67	63.5	
Little Falls/.....	Maximum...	74	76	79	78	82	80	82	83	83	76	80	83	91	92	93	85	73	74	87	81	75	83	83	90	91	91	72	73	83	79	88	81.9	
	Minimum...	64	54	59	62	62	61	69	67	68	67	65	61	70	71	74	73	66	65	68	74	65	71	71	68	64	65	71	68	64	62	69	69.1	
Long Valley /.....	Maximum...	76	78	79	83	86	88	85	76	88	74	87	90	94	92	93	88	70	77	88	86	75	85	89	90	92	90	67	73	83	74	86	83.3	
	Minimum...	55	45	51	53	60	57	56	65	63	63	61	60	66	67	70	69	67	63	62	70	65	62	58	60	64	65	61	62	58	63	61	61.4	
Millville.....	Maximum...	79	82	84	83	85	87	84	87	90	85	87	88	91	93	95	94	78	77	84	92	75	88	88	90	91	93	76	74	87	83	85	85.7	
	Minimum...	59	61	60	63	59	61	69	68	65	67	63	64	70	70	69	64	69	68	68	72	68	67	64	63	70	71	67	63	62	66	71	66.2	
Moorestown*.....	Maximum...	77	82	81	83	87	86	80	84	89	78	86	90	93	93	94	92	73	74	85	87	73	86	90	92	91	93	71	75	86	80	86	84.4	
	Minimum...	55	52	56	58	60	65	67	65	64	62	63	70	72	70	73	67	66	64	69	67	67	63	65	70	70	64	63	60	64	67	64.4		
Morris Plains.....	Maximum...	83	79	79	81	86	87	86	86	87	86	85	89	94	93	94	92	81	77	90	90	77	86	89	91	92	91	90	74	83	83	87	86.1	
	Minimum...	56</																																

CLIMATOLOGICAL DATA

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A. E. WHITE
TRENTON, N. J.

VOL. LII.

SEPTEMBER 1947

No. 9

GENERAL SUMMARY

The first half of September was unusually warm, averaging 6° or 7° above normal. The latter half was almost as much colder than normal, so that the month as a whole averaged about a degree warmer than normal. The week ending with the 15th was one of the three warmest weeks of the summer, the weekly average being 12° above the seasonal normal at Trenton and other interior stations. There were not many 90° temperatures but the nights were warm and the humidity high. The decided change to cooler and drier weather on the 16th was very welcome. The first frost occurred in the cranberry bogs and at a few stations in North Jersey on the 23d. Heavy frosts were rather general on the 26th, 27th, 28th, and 29th. These were killing in some sections, doing damage to late corn and some other crops.

It was the second consecutive month with less than normal rainfall; in fact, it was the third such month for most of the State. Rainfall was well distributed throughout the month, however, and soil moisture was adequate in most localities for seasonal needs. In some sections, more rain was needed for fall seeding and is still needed at this writing (October 15). The greatest amounts in September were recorded in the northern counties and the least amounts in the southern interior of the State, generally speaking, though the least monthly total was at Charlotteburg, near the northern border. There were no destructive winds.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 43 stations, was 67.0°, which was 1.1° above normal. The highest temperature was 95° at Burlington on the 14th, and the lowest, 19°, at Layton on the 28th. The highest monthly mean temperature was 71.8° at Burlington, and the lowest, 62.7° at Layton. The temperature departure from the normal for the year 1947, to date, for the State is +0.3°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 60 stations, was 2.68 inches, which was 1.10 inches below normal. The greatest monthly precipitation was 4.39 inches, at Rutherford, and the least, 1.19 inches at Charlotteburg. The greatest amount of precipitation in any 24 consecutive hours was 1.83 inches at Layton on the 2d. The average for the Highlands was 3.57 inches; for the Red Sandstone Plain, 3.10 inches; for the Southern Interior, 2.06 inches; and for the Sea Coast, 2.59 inches. The precipitation accumulated departure from the normal for the year 1947 to date, by sections, is: the Highlands, +4.66 inches; Red Sandstone Plain, +0.61 inch; Southern Interior, -2.10 inches; Sea Coast, -6.87 inches.

DATES OF MISCELLANEOUS PHENOMENA

HAIL: 4. HEAVY FOG: 5, 6, 11, 14, 15, 18, 19, 29. KILLING FROST: 23, 26, 27, 28, 29.
THUNDERSTORMS: 1, 2, 3, 4, 5, 6, 7, 8, 15, 16, 19, 20.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.61	28	29.74	22	15.2	38	ne.	19	83	70	76	64	87
Long Branch.....	30.63	28	29.68	22	10.0	26	ne.	19	84	66*	76	65	100
Newark.....	30.65	28	29.69	22	.....	36	nw.	22	82	57	73	.....	113
Trenton.....	30.62	28	29.70	22	8.2	29	nw.	16	84	61*	.....	57	120

* Noon

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	64.2	93	38	0.83	0	.....	.....	.....	.....
1886.....	66.9	95	36	1.13	0	.....	.....	.....	.....
1887.....	61.6	90	30	3.66	0	7	.....	.....	.....
1888.....	63.1	84	29	7.09	0	12	.....	.....	.....
1889.....	64.8	90	34	8.36	0	14	.....	.....	.....
1890.....	64.4	91	33	4.75	0	10	10	10	10
1891.....	68.7	95	38	2.46	0	6	16	9	5
1892.....	64.2	90	33	1.81	0	6	15	11	4
1893.....	62.7	90	31	3.20	0	8	12	10	8
1894.....	68.8	97	31	7.46	0	8	10	10	10
1895.....	69.7	109	29	1.07	0	5	17	10	3
1896.....	65.1	95	30	4.37	0	5	19	7	4
1897.....	65.5	99	30	1.65	0	5	19	7	4
1898.....	68.6	100	31	2.00	0	6	17	8	5
1899.....	64.4	93	30	5.88	0	9	15	9	6
1900.....	69.9	98	32	2.86	0	6	14	10	6
1901.....	66.8	94	29	3.38	0	10	15	9	6
1902.....	64.6	93	30	5.65	0	13	11	7	12
1903.....	65.0	92	29	3.34	0	7	17	8	5
1904.....	64.8	93	23	4.79	0	7	14	10	6
1905.....	65.4	90	28	5.23	0	8	16	7	7
1906.....	68.9	94	33	2.19	0	7	15	9	6
1907.....	67.1	92	31	8.08	0	14	10	8	12
1908.....	65.7	90	29	2.09	0	3	11	10	9
1909.....	64.5	89	30	3.30	0	8	11	10	9
1910.....	67.3	97	32	2.39	0	6	12	10	8
1911.....	66.4	90	30	2.88	0	9	10	12	8
1912.....	65.9	87	28	4.47	0	10	12	7	11
1913.....	64.4	96	27	3.87	0	9	13	8	9
1914.....	64.0	99	24	0.37	0	3	21	6	3
1915.....	68.5	97	30	2.08	0	5	17	9	4
1916.....	65.2	98	31	2.84	0	6	20	7	3
1917.....	61.5	87	27	2.74	0	6	16	7	7
1918.....	62.2	90	29	3.84	0	9	14	8	8
1919.....	65.8	96	32	3.26	0	8	16	6	8
1920.....	66.8	90	30	3.87	0	7	17	8	5
1921.....	70.2	99	36	2.35	0	8	15	8	7
1922.....	66.7	95	27	2.26	0	4	19	5	6
1923.....	67.0	90	28	3.78	0	7	14	8	6
1924.....	62.2	99	29	5.42	0	10	13	8	9
1925.....	67.5	96	25	2.92	0	7	11	11	8
1926.....	64.5	93	32	4.18	0	10	14	6	10
1927.....	65.6	97	29	2.66	0	5	19	6	5
1928.....	62.6	90	28	4.52	0	10	12	8	10
1929.....	67.0	100	28	4.74	0	8	14	7	9
1930.....	69.4	95	32	2.14	0	8	16	9	5
1931.....	70.5	100	34	1.98	0	6	19	6	5
1932.....	66.4	100	27	2.29	0	7	16	8	9
1933.....	68.0	93	38	6.07	0	10	12	9	9
1934.....	67.3	91	35	9.00	0	13	10	7	13
1935.....	63.2	89	27	6.12	0	8	15	7	8
1936.....	66.9	94	28	4.30	0	8	12	8	10
1937.....	63.4	98	29	2.63	0	6	19	5	6
1938.....	63.6	95	30	9.67	0	13	12	7	11
1939.....	66.5	98	31	1.49	0	8	15	9	6
1940.....	63.5	93	25	4.41	0	5	17	6	7
1941.....	67.5	98	26	0.28	0	2	21	6	3
1942.....	66.1	96	25	4.55	0	8	16	5	9
1943.....	65.0	98	26	1.85	0	6	15	7	8
1944.....	66.8	99	28	7.93	0	9	12	7	12
1945.....	69.0	96	39	4.68	0	10	11	7	11
1946.....	67.5	92	34	3.34	0	6	17	6	7
1947.....	67.0	95	19	2.68	0	8	13	9	8
Period	65.9	109	23	3.78	0	8	15	8	7

Climatological Data for September 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City.....	Atlantic.....	8	74	69.4	+2.6	88	19	42	30	2.57	-0.08	0.87	24-25	0	10	10	10	10	e.	U. S. Weather Bureau.
Belleplain.....	Cape May.....	49	53	68.3	+1.8	90	11†	33	27	3.49	-0.14	0.88	5-6	0	11	12	9	9	sw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	6	67.3	+2.0	92	13†	30	27†	1.64	-0.14	0.76	4	0	9	6	22	2	sw.	City Water Dept.
Belvidere.....	Warren.....	289	55	67.3	+2.0	92	13†	30	27†	3.64	-0.14	0.87	22	0	8	18	4	8	sw.	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	6	67.3	+2.0	92	13†	30	27†	1.61	-0.14	0.62	22	0	8	18	2	10	nw.	Samuel H. McCulley.
Boonton.....	Morris.....	280	57§	63.8	+0.1	88	8†	29	27	2.35	-1.77	0.64	16	0	8	18	2	10	ne.	J. C. Water Works.
Bridgeton.....	Cumberland.....	30	64	69.2	+0.8	92	15	36	27	2.62	-0.88	0.52	22	0	11	16	8	6	ne.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	6	67.3	+2.0	92	13†	30	27†	3.64	-0.14	0.87	22	0	8	18	4	8	sw.	C. D. Scott.
Burlington.....	Burlington.....	12	61§	71.8	+3.8	95	14	45	30	3.57	-0.22	1.29	15-16	0	7	16	8	6	sw.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	17	65.0	+0.6	91	13	26	27†	3.03	-1.83	0.84	2	0	9	14	6	10	nw.	N. J. Dept. of Conservation
Cape May.....	Cape May.....	17	59	71.0	+2.5	89	1†	40	26†	3.90	+0.81	1.69	6	0	9	16	6	8	ne.	Richard F. Umfrid, Jr.
Charlotteburg††.....	Passaic.....	760	55	63.2	+0.7	88	13†	24	27†	1.19	-3.30	0.47	2	0	6	8	7	15	se.	Newark Water Dept.
Chatham.....	Morris.....	185	43	66.6	+0.1	91	13	31	27	2.91	-1.57	0.68	2	0	9	15	10	5	sw.	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	7	66.6	+0.1	91	13	31	27	2.05	-0.66	0.22	22	0	7	8	16	6	sw.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	34	68.4	+1.2	92	15	35	27†	1.70	-1.79	0.53	24-25	0	11	13	9	8	sw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	4	68.4	+1.2	92	15	35	27†	1.70	-1.79	0.53	24-25	0	11	13	9	8	sw.	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	46	68.7	+1.7	93	13	32	27	3.76	-0.42	0.96	22	0	7	17	5	8	ne.	L. S. Depue.
Elizabeth.....	Union.....	33	68	68.7	+1.7	93	13	32	27	3.68	-0.37	1.27	5	0	9	17	5	8	ne.	Union County Park Comm.
Flemington, 2 mi. N.E.....	Hunterdon.....	134	61§	68.2	+1.3	93	13	32	28	3.05	-0.74	0.83	2	0	9	18	5	7	e.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	43§	67.5	+1.3	90	13†	32	27†	2.48	-1.90	0.66	5	0	11	9	13	8	s.	Moreau Plant Co.
Hammoncton.....	Atlantic.....	95	41§	68.2	+0.9	92	13†	32	28	1.74	-1.82	0.87	22	0	7	19	3	8	n.	J. G. Wilson.
Hightstown.....	Mercer.....	100	54	66.6	+0.1	91	13	31	27	1.94	-1.87	0.87	22	0	7	8	16	6	sw.	James R. Pickering
Indian Millst†, 2 mi. W.....	Burlington.....	100	58	66.8	+0.3	91	13†	31	27†	1.32	-2.65	0.49	22	0	10	9	15	6	s.	Edward Entwistle.
Jersey City.....	Hudson.....	135	49	67.0	-0.7	90	12	36	27†	3.55	-0.17	1.54	2	0	11	16	0	14	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	43	67.2	+1.7	90	13†	35	27	1.34	-2.15	0.50	22	0	9	9	11	10	sw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	60	65.2	-0.8	91	13	30	27†	2.97	-0.70	1.28	2	0	8	18	6	6	s.	George Bailey.
Layton††, 3 miles NW.....	Sussex.....	480	46	62.7	+0.1	91	8	19	28	3.31	-0.69	1.83	2	0	9	12	6	12	sw.	A. M. Depue.
Little Falls.....	Passaic.....	157	44	66.4	+0.9	93	13	31	27†	2.06	-2.16	0.67	22	0	8	7	21	2	ne.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	39	67.4	+1.3	88	15	41	24†	2.23	-1.56	0.55	22	0	11	10	13	7	s.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	17	63.8	+0.9	88	13†	26	28	3.29	-1.16	1.00	15	0	7	16	10	4	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	6	66.6	+0.1	91	13	31	27	2.00	-0.66	0.22	22	0	7	15	8	7	sw.	David Griscorn.
Mays Landing.....	Atlantic.....	50	3	68.0	+0.4	90	15	38	27†	1.65	-0.60	0.20	24-25	0	10	18	6	6	se.	Elmer Earle.
Millville, 2 mi. SW.....	Cumberland.....	60	7	68.0	+0.4	90	15	38	27†	2.87	-0.75	0.6	8	0	8	5	14	11	se.	Millville Airport.
Moorestown.....	Burlington.....	62	84	66.7	+0.4	90	13†	34	27	2.48	-1.27	1.05	15-16	0	7	17	3	10	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	6	65.3	+0.1	89	13	30	27†	2.51	-0.67	0.20	20	0	9	17	3	10	sw.	James C. Long.
Newark.....	Essex.....	11	93	67.6	+1.1	90	12	35	27	3.98	+0.21	1.67	2	0	9	9	12	9	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	99	93	67.4	+1.5	89	13	34	27	2.09	-1.74	0.65	2	0	8	17	5	8	se.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	29	67.4	+1.5	89	13	34	27	2.78	-1.46	1.25	2	0	8	17	5	8	se.	Hackensack Water Co.
Newton.....	Sussex.....	769	64	63.6	-0.3	89	13	24	28	3.96	+0.16	0.82	19	0	9	9	20	1	se.	Charles M. Wheeler.
Oranget†.....	Essex.....	140	7	66.8	+0.5	90	8†	33	28	3.30	-1.32	0.93	2	0	9	10	13	7	w.	County Engineer.
Paterson.....	Passaic.....	100	76	66.8	+0.5	90	8†	33	28	2.83	-1.32	0.93	2	0	8	10	13	7	w.	J. W. Cook.
Pemberton.....	Burlington.....	60	18	67.7	-0.5	92	15	33	27†	2.17	-2.00	0.83	15	0	9	14	9	7	sw.	Charles A. Doehrlert.
Phillipsburg.....	Warren.....	182	64§	65.8	+0.6	90	13	30	28	4.35	+0.67	1.80	15-16	0	8	15	8	7	sw.	Town Engineer.
Plainfield.....	Union.....	120	59	66.6	+0.9	91	13	32	27	4.26	-0.27	1.24	15-16	0	8	8	15	7	sw.	S. K. Pearson.
Plainboro.....	Middlesex.....	110	6	66.6	+0.9	91	13	32	27	2.75	-0.27	1.24	15-16	0	8	8	15	7	sw.	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	49	68.2	+2.0	90	2	33	23	3.17	-1.57	0.76	24-25	0	7	17	4	9	s.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	8	68.2	+2.0	90	2	33	23	3.17	-1.57	0.76	24-25	0	7	17	4	9	s.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	30	66.8	+1.4	91	13	30	27	3.66	-0.46	1.27	2	0	9	11	13	6	s.	George P. Kirsten.
Runyon††.....	Middlesex.....	18	24	66.4	+1.7	92	12	27	27	2.04	-2.10	0.84	22	0	6	19	5	6	s.	N. J. Dept. of Conservation
Rutherford.....	Bergen.....	51	3	67.6	+1.7	90	12	32	27	4.39	-1.32	0.84	2	0	9	8	8	14	se.	Harold Scott.
Sandy Hook.....	Monmouth.....	22	49	69.6	+2.1	88	13†	44	23†	2.62	-0.81	1.04	5	0	9	5	21	4	sw.	U. S. Coast Guard.
Somerville.....	Somerset.....	65	64	67.4	+1.5	91	13	29	27	3.44	-0.34	1.51	5	0	7	10	9	11	nw.	William E. Haver.
Sussex.....	Sussex.....	450	52	64.8	+0.5	89	13	27	27†	2.03	-1.98	0.80	22	0	7	10	5	15	s.	Marshall Hunt.
Toms River.....	Ocean.....	33	26	64.8	+0.5	89	13	27	27†	2.03	-1.98	0.80	22	0	7	10	5	15	s.	Robt. F. Snyder.
Trenton.....	Mercer.....	56	75	67.3	+0.4	89	15	36	27	1.90	-1.50	0.55	22	0	9	9	12	9	n.	U. S. Weather Bureau.
Trenton No. 2.....	do.....	105	17	67.3	+0.4	89	15	36	27	1.90	-1.50	0.55	22	0	9	9	12	9	n.	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	54	67.8	+0.9	90	2	34	27	1.48	-1.90	0.54	5	0	8	18	4	8	e.	John H. Brown.
Vineland.....	Cumberland.....	110	67	67.8	+0.9	90	2	34	27	2.07	-1.45	0.78	24-25	0	12	15	8	7	s.	Robert Jones.
Westfield.....	Union.....	135	8	67.8	+0.9	90	2	34	27	3.88	-1.05	1.05	15	0	7	13	5	12	sw.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	29	68.2	+1.1	91	14	36	27	2.46	-1.72	1.05	2	0	9	13	5	12	sw.	Hackensack Water Co.
Woodstown, 2 mi. N.....	Salem.....	16	0	68.2	+1.1	91	14	36	27	1.46	-0.77	0.77	22	0	6	14	13	3	sw.	J. De Geus.
New York, N. Y.....	Essex.....	10	77	68.4	+1.6	87	13	41	30	2.69	-0.70	0.69	1-2	0	10	10	14	6	s.	U. S. Weather Bureau.
Philadelphia, Pa.....	Essex.....	26	77	69.2	+1.2	89	13	40	27	2.91	-0.23	1.31	15-16	0	9	9	13	8	s.	U. S. Weather Bureau.
For the State.....				67.0	+1.1	95	14	19	28	2.68	-1.10	1.83	2	0	8	13	9	8	sw.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for September 1947

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ¹	Coast				.36	.01	.53	.01	.07					T.	.19						.01		.48		.54	.37							2.57
Bass River	do.				T.						.68			T.	.07						.04		.30		1.00								2.09
Belleplain	Tuckahoe	.08	.10		.70	.10	.88	.06	.28												.09		.35		.29	.56							3.49
Belmar ²	Coast		.13		.76	.10	T.	T.	T.	T.	T.	T.	T.	T.	.06	.03					.08		.37		.04	.07							1.64
Belvidere	Delaware		.74			.18			.32		.39					.50	.60					.04	.87										3.64
Berlin ³	Mullica	.23			.12	.07	.05	T.									.10					T.		.62		.32	.10						1.61
Boonton ³	Passaic		.26			.55	.04	T.								T.	.64				.08		.12	.49		.17							2.35
Bridgeton	Delaware		.04		.29	.06	.35	.18	.02		.14					.15							.52		.39	.48							2.62
Brooklawn	do.				.08	.30	T.	.20	T.							1.03							.65		.34								2.66
Burlington	do.		.50			.23			.60							1.25	.04						.65		.30								3.57
Canoe Brook ³	Passaic		.84			.24	.34	.03									.41				.29		.09	.55		.24							3.03
Canton ²	Delaware		.05			.14	.42	.04			.13						.10						.53		.68	.01							2.10
Cape May ¹	Coast				.20	.69	.24	.07							.05							.59	.01	.20	.85								3.90
Charlotteburg	Passaic		.47			.14										.36	.18				.02		.57		.45								1.19
Chatham ³	do.		.68			.04	.40	.02									.66				.26		.11	.55		.19	T.						2.91
Chatsworth	Coast					.99		.04															.57		.45								2.05
Clayton	Delaware		.13		T.	.04	.14	.04	.14							.12					.03	.01	.52		.14	.39							1.70
Clinton	Raritan		.59			.12		.04	.70			.01				.25	.24				.11		.67		.08								2.81
Convers Lake	do.		.60		.55	.29					.87					T.	.45				.04		.96										3.76
Elizabeth	Coast		.90		T.	1.27	.02	T.							.01	.43	.03				.21	T.	.64			.17							3.68
Essex Fells ³	Passaic		.60			.02	.19									.42							.74		.28								2.25
Flemington	Raritan		.83			.28	.28	T.	.30							.18	.10				.13		.69		.26								3.05
Freehold	do.		.65			.66	.01	.12		.01		.02				.03	.08					.06		.49		.35							2.48
Hammonton	Mullica						.20	.23								.15	.03						.43		*	.70							1.74
Hightstown	Raritan		.29			.13				T.						T.	.10	.02				.20		.87		T.	.33						1.94
Indian Mills	Mullica		.10		.06	.10	.05	.03								.04	.02						.49		.15	.28							1.32
Jersey City ²	Coast		1.54		.01	.30										.04	.35	.04			.35	.05	.02		.65	.20							3.55
Lakewood	Metedeconk		.20				T.	.15								.04	.10					.06		.50		.02	.17						1.34
Lambertville	Delaware		1.28		T.	.23	T.	.05	T.	T.						.25	.07					.07		.74		.28							2.97
Layton	do.		1.83		.05	.06		.08			.11					.01	.04	.37					.76										3.31
Little Falls ³	Passaic		.64			.08										.30					.05		.21	.46		.31	.01						2.06
Long Branch ¹	Coast		.26		.25	.45	T.	.05	T.	T.				.06	.07	.24				.10	.06		.55		T.	.14							2.23
Long Valley ³	Raritan			.70		.42	T.	.12			.21					1.00							.77										3.29
Manville ²	do.		.95		T.	.96										.40	.09			.05	T.		.40		.20								3.05
Marlton	Delaware		.05			.16		.05								.65							.66		.05	.38							2.00
Mays Landing	Gt. Egg Harbor		.02			.05	.24	.20	.25		.04					T.					.03		.22		.25	.35							1.65
Midland Park ²	Passaic		.22		.06	.08										.16				.11			.59		.42	.31							1.28
Millville (Arpt.) ²	Maurice				.45	.08	.75	T.	.42		T.					.04					T.		.40		.42	.31							2.87
Moorestown ³	Delaware		.36			.10	.01			T.							1.05							.62		.31	.03						2.48
Morris Plains	Passaic		.36		.18	.05	.06	.07			T.					.32						.67		.60		.20							2.51
Newark ¹	Coast		1.67		.10	.45									.02	.40	.03			.48	T.		.67		.16								3.98
New Brunswick	Raritan		.65			.04	.04									.06	.22			.06			.51	T.	.15								2.09
New Milford ²	Hackensack		1.25		.05	.11										.50	.02			.11		.48				.26							2.78
Newton ³	Delaware		.43			.75	.02		.32			.43				T.	.40					.82		.42	.37								3.96
Orange ¹	Passaic		1.20			.51										.74	.02			.12	.02		.48		.21								3.30
Pateron ²	do.		.93		.45	.12										.35	.03			.13	T.	T.	.60		.22								2.83
Pemberton	Delaware		.31			.24	.02	.01	.01	T.	T.					.83	.03						.45		.01	.29							2.17
Phillipsburg	do.		.77			.25	T.	.06	T.	T.	.47					1.12	.68				T.	.30	T.	.70									4.35
Plainfield	Raritan		1.08		.06	1.06										1.16	.08					.05		.56		.21							4.26
Plainsboro	do.		1.12													.58						.30		.75									2.75
Pleasantville ³	Coast							.56	.04							.13	.01						.35		.76	.02							1.87
Rahway ¹	Rahway		.68		.02	1.00										.50						.17		.58		.16							3.11
Ridgefield	Hackensack		1.27		.02	.59										T.	.55	.20			.09		.17		.56		.21						3.66
Ringwood ³	Passaic		.33			.62											.20					.25		.30	.65								2.35
Runyon	Coast		.38			.35											.15					.06		.84		.26							2.04
Rutherford	Passaic		1.32		.33	.75	.01							T.	T.	1.04	.03			T.	.20		.48		.23								4.39
Sandy Hook ²	Coast		.23		.20	1.04				T.		.02				.01	T.	.01			.25		.54		.32								2.62
Somerville	Raritan		.66			1.51										.29	.07				.06		.69		.16								

Daily Temperatures for September 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	77	87	85	86	79	76	78	81	79	82	83	83	82	82	81	79	75	77	88	69	78	77	57	63	64	62	58	61	68	63	75.3
	Minimum...	70	73	68	68	74	71	71	72	74	75	75	76	76	73	76	64	60	71	64	63	67	50	43	52	53	45	41	44	52	42	63.4
Belleplain.....	Maximum...	86	88	86	84	80	79	80	84	82	86	90	90	88	89	90	86	81	80	86	81	81	78	63	60	61	62	60	62	73	71	78.9
	Minimum...	62	70	68	60	59	65	70	68	71	65	66	68	70	72	70	70	45	47	55	57	60	60	35	50	52	45	33	34	45	39	57.7
Belvidere.....	Maximum...	82	86	86	88	79	83	89	90	82	87	89	91	92	92	85	75	80	83	90	79	75	69	65	61	62	63	63	66	72	58	78.7
	Minimum...	55	68	60	60	66	67	66	68	67	69	69	70	69	72	67	61	48	53	55	53	58	55	36	40	51	35	30	30	35	45	55.9
Boonton/.....	Maximum...	82	83	83	84	79	80	87	88	75	85	86	86	88	88	85	72	77	79	85	67	79	66	60	60	64	59	61	61	68	56	75.8
	Minimum...	53	60	60	55	60	64	63	66	65	64	64	68	66	68	64	64	45	40	45	50	43	57	35	34	34	35	29	32	31	37	51.7
Bridgeton.....	Maximum...	80	89	89	87	88	77	79	86	82	84	88	88	90	88	92	79	82	85	86	80	81	77	64	57	67	62	59	55	71	62	78.5
	Minimum...	65	70	62	66	70	67	69	69	72	72	69	73	73	73	72	66	52	56	59	57	63	59	40	44	51	42	36	39	40	50	59.9
Burlington.....	Maximum...	92	92	93	93	85	75	88	92	84	85	88	89	92	95	87	78	78	83	86	86	83	79	78	73	68	68	66	66	70	70	82.1
	Minimum...	63	68	62	64	74	69	69	72	69	69	73	74	72	72	77	64	53	58	51	58	60	66	52	48	54	48	48	46	45	61.5	
Canoe Brook/.....	Maximum...	82	87	87	86	80	81	87	85	74	85	89	89	91	88	89	75	78	79	88	65	79	67	61	60	64	62	63	61	72	59	77.1
	Minimum...	51	64	56	58	59	64	64	66	64	65	69	68	66	66	62	64	46	49	51	52	53	58	36	37	42	33	26	26	33	41	53.0
Cape May.....	Maximum...	89	87	89	89	82	78	77	83	81	78	86	86	86	86	86	83	79	81	86	83	81	79	68	62	65	64	63	71	70	64	78.7
	Minimum...	68	74	74	74	73	68	72	71	74	73	73	74	74	71	70	67	68	61	64	60	67	62	45	46	58	40	44	49	40	41	63.4
Charlotteburg.....	Maximum...	80	84	83	84	80	80	84	85	85	85	85	85	88	88	85	72	77	78	85	82	76	74	63	59	64	63	60	60	67	67	76.9
	Minimum...	47	62	54	49	55	63	60	62	63	63	64	61	64	65	61	59	39	41	41	47	53	56	33	32	36	32	24	24	27	47	49.5
Chatsworth.....	Maximum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clayton.....	Maximum...	81	89	85	87	78	77	82	86	80	86	90	90	91	89	92	82	80	83	89	83	82	75	63	57	63	62	62	64	71	60	78.6
	Minimum...	61	70	62	69	68	67	70	68	70	70	68	72	69	71	69	65	50	52	56	55	57	59	37	43	50	41	35	35	39	46	58.1
Elizabeth.....	Maximum...	84	87	88	89	79	88	88	87	81	87	90	90	93	89	91	79	80	81	88	82	82	75	62	64	63	65	66	64	72	64	79.8
	Minimum...	60	69	69	69	64	67	65	70	68	68	70	61	68	70	66	61	50	52	60	52	60	57	36	40	51	40	32	37	39	50	57.6
Flemington.....	Maximum...	82	89	88	89	83	79	90	87	79	88	90	91	93	91	88	75	80	86	90	79	81	76	63	60	66	66	61	65	72	67	79.8
	Minimum...	58	66	60	60	67	66	66	72	67	68	68	72	70	72	68	63	48	51	55	53	58	59	36	40	50	39	34	32	35	47	56.7
Freehold.....	Maximum...	82	88	86	87	77	80	85	85	80	84	88	89	90	85	90	75	76	80	86	80	79	76	59	62	60	62	60	74	75	62	78.1
	Minimum...	61	69	61	62	66	68	67	71	67	68	70	70	69	66	63	48	50	58	55	59	58	36	41	49	39	32	32	39	44	56.9	
Hammonton.....	Maximum...	85	89	89	86	84	75	88	81	88	85	88	89	92	92	92	78	79	81	89	77	78	72	71	64	65	61	59	71	61	79.7	
	Minimum...	60	68	61	63	64	68	68	71	71	72	69	71	66	72	70	64	47	49	49	56	59	58	36	39	49	38	33	32	37	38	56.6
Hightstown.....	Maximum...	79	86	86	85	75	78	85	85	76	85	90	88	91	85	90	76	76	81	86	78	81	75	61	61	62	63	63	62	73	62	77.5
	Minimum...	59	68	59	59	64	67	67	70	66	66	69	70	70	69	64	63	46	49	54	52	57	55	34	39	49	36	31	33	34	48	55.6
Indian Mills.....	Maximum...	81	88	88	85	78	76	84	86	79	87	90	89	91	90	91	76	80	82	88	78	80	76	59	58	62	62	62	64	71	60	78.0
	Minimum...	56	71	59	61	66	66	69	68	70	69	67	71	69	70	67	59	42	45	50	55	59	56	33	39	50	38	31	32	31	45	55.5
Jersey City*.....	Maximum...	74	84	83	82	78	82	80	85	77	83	84	90	88	88	88	79	77	78	86	68	77	75	57	63	63	60	59	67	62	79.9	
	Minimum...	60	69	64	64	66	68	70	72	69	70	72	72	70	70	58	53	56	56	52	60	46	39	45	48	42	36	36	50	38	58.1	
Lakewood.....	Maximum...	82	88	87	87	78	78	85	82	76	84	87	89	90	84	90	78	77	79	88	81	78	76	61	61	64	62	62	72	60	77.6	
	Minimum...	59	71	60	61	66	67	67	70	68	67	70	70	68	64	66	47	49	52	57	50	60	59	37	40	51	39	35	36	36	47	56.9
Lambertville.....	Maximum...	82	83	83	80	79	77	78	82	82	75	82	88	91	84	83	75	73	74	74	68	72	56	58	65	59	57	57	71	58	74.1	
	Minimum...	57	68	58	62	66	67	66	72	69	69	70	73	70	72	69	64	47	48	57	53	58	55	35	39	49	36	30	30	34	46	56.3
Layton.....	Maximum...	80	83	83	87	76	82	83	91	84	87	85	87	88	87	83	73	79	80	87	88	75	70	65	59	65	60	59	63	69	58	76.5
	Minimum...	45	61	52	54	58	63	61	65	62	64	65	62	62	62	55	41	45	51	51	47	47	28	32	43	24	20	19	25	39	48.9	
Little Falls/.....	Maximum...	83	86	85	85	80	84	88	89	76	86	89	88	93	89	88	75	79	80	87	68	80	68	62	61	65	62	62	62	70	58	77.6
	Minimum...	54	67	58	57	61	65	66	68	65	67	66	70	69	70	65	64	47	49	53	50	55	61	37	39	49	38	31	31	35	51	55.3
Long Branch*.....	Maximum...	78	87	86	86	75	79	84	83	73	83	85	87	87	83	88	76	77	78	86	67	79	76	59	63	62	61	60	62	69	60	76.0
	Minimum...	67	70	62	62	66	67	69	72	69	69	68	71	72	71	69	55	51	53	60	57	62	50	41	42	52	47	43	44	41	43	58.8
Long Valley/.....	Maximum...	80	85	83	84	77	78	84	85	76	84	85	88	84	88	88	74	75	78	86	60	72	73	58	59	64	60	61	61	68	56	75.1
	Minimum...	52	56	56	54	61	62	61	68	65	67	69	68	66	70	64	62	44	45	50	50	55	58	34	35	50	34	28	26	29	48	52.6
Millville.....	Maximum...	82	89	88	86	78	75	80	89	81	85	88	88	89	87	90	78	81	83	86	75	80	77	60	57	62	61	60	64	70	58	77.6
	Minimum...	66	67	62	69	70	67	69	68	71	71	69	73	72	71	71	55	52	54	57	58	62	49	39	44	50	41	38	38	39	40	58.4
Moorestown*.....	Maximum...	80	87	86	86	75	77	85	86	76	86	89	88	90	90	90	74	78	82	86	63	80	75	69	60	64	61	60	64	71	5	

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION

A. E. WHITE.

TRENTON, N. J.

VOL. LII.

OCTOBER 1947

JAN 13 No. 10

GENERAL SUMMARY

This month averaged the warmest of any October in New Jersey since records were begun in 1885. No temperatures were registered above 89°, however, and monthly maxima were much below the high readings of October 4th, and 5th, 1941 which were well up in the 90's. The warmest days were generally the 15th, 16th, 21st and 23d. On the two later dates, heat records were broken for so late in the season. Killing frosts were reported on the 1st, 24th, and 25th, with a reading as low as 18° registered at Layton on the 25th. Sunshine percentage for the month was unusually high.

The month was dry until the 28th, when the first rains of consequence fell since September 25th. The soil had become very dry and the rains near the close of the month were of great benefit for fall seeding, pastures and general replenishing of soil moisture. These rains were sufficient to bring the State average precipitation for the month up to 57 percent of normal. No snow occurred at any station. Gale winds were registered on the coast on the 31st, but no damage was reported. The month was unusually favorable for harvesting of crops.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 44 stations, was 60.4°, which was 5.7° above normal. The highest temperature was 89° at Hammon-ton on the 21st, and the lowest, 18°, at Layton on the 25th. The highest monthly mean temperature was 64.0° at Cape May, and the lowest, 56.6° at Layton. The temperature departure from the normal for the year 1947, to date, for the State is +0.8°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 61 stations, was 2.06 inches, which was 1.56 inches below normal. The greatest monthly precipitation was 4.10 inches, at Tom's River, and the least, 0.31 inch at Mill-ville. The greatest amount of precipitation in any 24 consecu-tive hours was 2.69 inches at Trenton No. 2 on the 28th and 29th. The average for the Highlands was 1.76 inches; for the Red Sand-stone Plain, 2.12 inches; for the Southern Interior, 1.91 inches; and for the Sea Coast, 2.68 inches. The precipitation accumu-lated departure from the normal for the year 1947 to date, by sections, is: the Highlands, +2.76 inches; Red Sandstone Plain, -0.90 inch; Southern Interior, -3.70 inches; Sea Coast, -7.70 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HAIL: 29. HEAVY FOG: 4, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 23, 26, 27, 29.
KILLING FROST: 1, 24, 25. THUNDERSTORMS: 18, 19, 28, 29, 30, 31.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.52	24	29.75	19	13.3	49	ne.	31	88	74	82	67	98
Long Branch.....	30.53	24	29.76	19	9.3	45	ne.	31	85	74*	82	68	160
Newark.....	30.53	24	29.74	19	.....	29	ne.	31	85	54	76	.....	153
Trenton.....	30.53	24	29.76	19	6.8	30	n.	23	85	57*	.....	65	134

* Noon

COMPARATIVE DATA FOR OCTOBER

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	54.2	82	29	4.20	0	.....	.....	.....	.....
1886.....	55.6	88	21	3.22	0	.....	.....	.....	.....
1887.....	52.3	89	21	2.61	0	7	.....	.....	.....
1888.....	49.2	73	25	4.73	0	12	.....	.....	.....
1889.....	50.8	82	23	3.80	0	11	.....	.....	.....
1890.....	53.9	81	24	6.33	0	13	9	8	14
1891.....	52.8	92	18	3.44	0	8	11	11	9
1892.....	53.6	85	21	0.62	0	4	14	12	5
1893.....	55.2	85	17	4.22	0	7	15	7	9
1894.....	55.3	87	27	5.67	0	10	12	7	12
1895.....	49.9	83	18	3.60	0	5	19	7	5
1896.....	51.5	82	21	2.24	0	8	11	8	12
1897.....	55.8	95	22	2.43	0	7	14	8	9
1898.....	56.5	88	24	5.76	0	10	13	9	9
1899.....	56.6	86	18	2.72	0	6	13	10	8
1900.....	59.9	92	19	3.70	0	10	10	8	13
1901.....	54.4	82	21	1.98	0	4	17	8	6
1902.....	56.0	80	20	6.39	0	8	15	7	9
1903.....	55.9	86	24	8.82	0	8	13	9	9
1904.....	51.9	89	15	3.78	0	5	20	6	5
1905.....	55.5	90	17	2.71	0	7	18	7	6
1906.....	55.0	80	11	4.46	0	11	8	9	14
1907.....	50.6	80	18	4.46	0	7	22	5	4
1908.....	57.3	92	19	2.71	0	8	15	5	11
1909.....	51.2	84	18	1.18	0	8	17	7	7
1910.....	57.2	90	18	3.15	0	7	15	8	8
1911.....	53.9	80	18	5.49	0	12	10	9	12
1912.....	57.0	88	25	3.30	0	5	17	8	6
1913.....	57.8	83	25	7.79	0	11	12	9	10
1914.....	58.1	88	19	1.99	0	5	13	9	9
1915.....	56.2	84	23	3.03	0	9	17	7	7
1916.....	55.1	92	23	1.37	0	4	18	8	5
1917.....	50.7	84	22	6.99	0	10	15	8	8
1918.....	57.0	84	22	1.25	0	8	16	9	6
1919.....	59.0	92	25	3.43	0	13	9	8	14
1920.....	59.0	87	28	1.80	0	5	20	5	6
1921.....	54.1	82	16	0.97	0	5	18	7	6
1922.....	56.6	92	18	1.48	0	7	19	6	7
1923.....	53.9	81	21	4.25	0	8	16	8	7
1924.....	54.4	84	16	0.31	0	1	23	6	2
1925.....	49.1	84	12	4.59	0	11	9	9	13
1926.....	53.1	90	17	4.08	0	11	13	8	10
1927.....	56.8	94	23	7.82	0	10	18	5	8
1928.....	56.1	90	16	1.19	0	6	17	9	5
1929.....	52.3	80	17	4.61	0	8	15	8	8
1930.....	52.6	89	12	1.95	0	6	17	7	7
1931.....	58.3	92	24	2.76	0	8	17	7	7
1932.....	56.2	89	21	5.85	0	10	13	6	12
1933.....	53.6	84	18	2.04	T.	6	18	7	6
1934.....	52.6	82	21	2.49	T.	6	17	6	8
1935.....	54.8	84	23	4.50	0	8	18	7	6
1936.....	55.6	82	9	3.40	0	8	15	6	10
1937.....	53.2	84	15	5.27	T.	10	12	7	12
1938.....	56.2	93	24	2.47	0	7	19	5	7
1939.....	54.9	93	19	4.24	0	9	14	6	11
1940.....	51.0	82	11	2.36	0.7	8	15	7	9
1941.....	58.9	97	17	1.90	0	8	15	7	9
1942.....	56.1	87	21	3.43	0	9	15	6	10
1943.....	63.5	87	18	7.51	0	11	12	7	12
1944.....	53.7	88	18	2.41	0	6	18	5	8
1945.....	54.2	86	21	2.51	0	9	14	7	10
1946.....	59.0	90	24	1.49	0	7	17	5	9
1947.....	60.4	89	18	2.06	0	5	19	6	6
Period.....	54.7	97	9	3.62	T.	8	15	8	8

Climatological Data for October 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches					No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City.....	Atlantic	8	74	63.0	+6.0	85	21	37	1	2.29	-0.91	1.04	8	0	4	12	6	13	e.	U. S. Weather Bureau.
Belleplain.....	Cape May	49	53	61.5	+6.1	85	21	28	1	0.91	-2.72	0.45	29	0	3	18	8	5	e.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth	19	6							2.96		1.41	31	0	5	19	9	3	se.	City Water Dept.
Belvidere.....	Warren	289	55	60.4	+5.6	86	16†	29	25	2.32	-1.31	1.07	29	0	5	22	2	7		Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden	70	6							1.25		1.25	28-29	0	1	18	9	4	w.	Samuel H. McCulley.
Boonton.....	Morris	280	57§	56.8	+4.4	82	16†	27	25	2.73	-0.81	0.59	30-31	0	4	18	2	11	ne.	J. C. Water Works.
Bridgeton.....	Cumberland	30	64	62.4	+5.4	84	21	32	1	1.10	-2.27	0.64	29	0	5	20	8	3	ne.	Bennett K. Matlack.
Brooklawn.....	Camden	30	6							1.90		1.65	28	0	2					C. D. Scott.
Burlington.....	Burlington	12	61§	63.6	+6.4	88	15	38	25	2.40	-1.08	0.90	28-29	0	4	22	6	3	se.	Public Service E. & G. Co.
Canoe Brook††.....	Essex	180	17	58.0	+5.4	85	24	25	25	2.01	-1.63	1.06	28	0	6	17	6	8	sw.	N. J. Dept. of Conservation
Cape May.....	Cape May	17	59	64.0	+5.7	81	19†	83	2	1.36	-1.68	1.16	8	0	4	20	7	4	w.	Richard F. Umfrid, Jr.
Charlotteburg††.....	Passaic	760	55	57.2	+5.7	85	16†	21	25	1.71	-2.53	0.97	28-29	0	5	19	5	7	w.	Newark Water Dept.
Chatham.....	Morris	185	43							2.30	-1.50	1.22	28-29	0	6	23	3	5		Edward P. Molitor.
Chat-worth.....	Burlington	90	7	61.5		86	23	30	1†	2.08		1.50	28-29	0	3	19	10	2	sw.	Alfred L. Stevenson.
Clayton.....	Gloucester	120	34	62.4	+6.0	85	21	31	1	1.00	-2.30	0.47	28-29	0	7	18	6	7	sw.	Harry P. Campbell.
Clinton.....	Hunterdon	300	4							2.29		1.86	28-29	0	4	20	4	7	sw.	L. W. Klockner.
Culvers Lake††.....	Sussex	760	46							1.77	-1.89	0.97	29	0	3					L. S. Depue.
Elizabeth.....	Union	33	68	61.2	+5.9	87	21†	32	1†	1.91	-1.80	0.93	28-29	0	4	20	3	8	ne.	Union County Park Comm.
Flemington, 2 mi. NE.....	Hunterdon	134	61§	61.0	+5.3	87	23	30	25	2.79	-0.65	1.51	28-29	0	7	22	3	6	sw.	Hiram E. Deats.
Freehold.....	Monmouth	194	43§	60.8	+5.8	83	21	32	1†	4.00	+0.26	1.57	18	0	6	17	9	5	s.	Moreau Plant Co.
Hammononton.....	Atlantic	95	41§	63.6	+7.4	89	21	31	1	1.48	-2.11	0.90	28-29	0	3	22	5	4	sw.	J. G. Wilson.
Hightstown.....	Mercer	100	54	60.2	+5.3	85	21	28	25	2.31	-1.33	1.07	28-29	0	5	19	7	5	sw.	James R. Pickering.
Indian Mills††, 2 mi. W.....	Burlington	100	58	60.8	+5.5	86	21	24	1	1.01	-2.48	0.47	31	0	4	17	9	5	s.	Edward Entwistle.
Jersey City.....	Hudson	135	49	60.2	+3.8	85	23	36	1	2.14	-1.34	0.95	31	0	5	20	3	8	sw.	J. C. Water Dept.
Lakewood.....	Ocean	54	43	60.0	+5.5	84	21	28	1	2.34	-1.65	0.93	30-31	0	5	14	10	7	sw.	R. W. Holman.
Lambertville.....	Hunterdon	75	60	59.5	+5.1	87	21	29	25	2.05	-1.40	1.73	28-29	0	7	21	8	2	s.	George Bailey.
Layton††, 3 miles NW.....	Sussex	480	46	56.6	-5.7	86	23	18	25	0.96	-2.64	0.67	30-31	0	2	21	5	5	e.	A. M. Depue.
Little Falls.....	Passaic	157	44	60.0	+5.8	86	17	30	25	2.42	-1.74	0.95	28-29	0	6	20	7	4	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth	34	39	60.4	+5.1	84	23	34	25	4.01	+0.45	1.47	31	0	7	16	4	11	s.	Storm Warn. Display Sta.
Long Valley.....	Morris	660	17	56.7	+5.2	86	15	24	24	2.09	-1.35	0.88	28	0	4	20	7	4	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington	90	6							1.44		0.88	28-29	0	6	19	7	5	sw.	David Griscom.
Mays Landing.....	Atlantic	50	3							0.99		0.48	31	0	3	20	8	3	ne.	Elmer Earle.
Millville, 2 mi. SW.....	Cumberland	60	7	62.3		86	21	30	1	0.31		0.16	8	0	5	7	13	11	s.	Millville Airport.
Moorestown.....	Burlington	62	84	60.8	+5.9	85	21†	31	25	2.36	-1.05	1.32	28-29	0	5				.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris	400	6	57.1		85	23	25	25	2.89		1.26	28-29	0	6	21	6	4	.....	James C. Long.
Newark.....	Essex	11	93	61.0	+5.4	87	23	36	25	2.20	-1.59	1.32	30-31	0	6	14	5	12	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex	99	93	60.0	+5.2	86	21†	31	25	2.15	-1.41	1.19	28-29	0	5	19	5	7	se.	N. J. Experiment Station.
New Milford††.....	Bergen	12	29							2.26	-0.95	0.94	19	0	5					Hackensack Water Co.
Newton.....	Sussex	769	64	57.0	+4.3	88	6	23	25	2.10	-1.56	0.93	28	0	3	17	10	4	sw.	Charles M. Wheeler.
Orange††.....	Essex	140	7							1.37		0.54	31	0	5					County Engineer.
Paterson.....	Passaic	100	76	61.2	+6.2	86	23	33	25	2.46	-1.40	0.86	29	0	6	16	6	9	w.	J. W. Cook.
Pemberton.....	Burlington	60	18	61.0	+4.8	86	21	29	1†	2.10	-1.36	1.60	28-29	0	7	19	8	4	s.	Charles A. Doehlert.
Phillipsburg.....	Warren	182	64§	58.4	+4.9	83	21	30	25	2.43	-1.09	1.38	28	0	5	20	5	6	sw.	Town Engineer.
Plainfield.....	Union	120	59	59.8	+5.7	86	21†	30	25	2.21	-1.66	0.89	28	0	6	15	10	6	sw.	S. K. Pearson.
Plainsboro.....	Middlesex	110	6							1.98		0.44	29	0	3					Walker-Gordon Lab.
Pleasantville††.....	Atlantic	8	49	60.3	+5.2	86	21	30	1	1.09	-2.38	0.44	29	0	8	20	3	8	ne.	N. J. Dept. of Conservation.
Rahway.....	Union	20	8							1.81		0.87	28-29	0	6	16	7	8	sw.	Louis Fontenelli.
Ridgefield.....	Bergeu	80	30	60.0	+6.1	85	23	30	1	1.92	-1.59	1.14	30-31	0	6	21	4	6	s.	George P. Kirsten.
Runyon††.....	Middlesex	18	24	60.8	+7.9	84	18	29	4	2.39	-1.35	1.02	29	0	4	21	6	4	sw.	N. J. Dept. of Conservation
Rutherford.....	Bergen	51	3	61.2		87	23	32	25	1.95		1.05	31	0	6	16	4	11	s.	Harold Scott.
Sandy Hook.....	Monmouth	22	49	62.6	+5.9	80	23	40	1	2.79	-0.99	1.63	30-31	0	6	14	10	7	w.	U. S. Coast Guard.
Somerville.....	Somerset	65	64	59.8	+5.6	86	23	20	25	2.10	-1.29	1.22	28-29	0	6	20	3	8	w.	William E. Haver.
Sussex.....	Sussex	450	52	58.8	+6.0	86	23	23	25	1.78	-1.54	0.67	28-29	0	3	18	2	11	sw.	Marshall Hunt.
Toms River.....	Ocean	33	26							4.10	-0.16	2.07	18	0	5					Robt. F. Snyder.
Trenton.....	Mercer	56	75	61.9	+6.3	85	21	37	1	2.64	-0.14	2.34	28-29	0	5	16	5	10	s.	U. S. Weather Bureau.
Trenton No. 2.....	do.	105	17							3.04	-0.30	2.69	28-29	0	5					Edward H. Ristow.
Tuckerton.....	Ocean	23	54	61.1	+4.6	88	21	28	1	2.18	-1.41	1.00	29	0	4	20	4	7	e.	Jobu H. Brown.
Vineland.....	Cumberland	110	67							1.10	-2.17	0.50	31	0	4	21	7	3	s.	Robert Jones.
Westfield.....	Union	135	8							1.87		1.20	28-29	0	3	20	7	4	sw.	Town Engineer.
Woodcliff Lake††.....	Bergen	103	29							1.67	-1.49	0.54	31	0	5					Hackensack Water Co.
Woodstown, 2 mi. N.....	Salem	16	0	62.3		87	21	33	1	1.81		1.63	28	0	3	20	6	5	.....	J. De Geus.
New York, N. Y.....		10	77	63.2	+6.9	85	23	38	1	2.32	-1.21	1.13	30-31	0	7	14	7	10	sw.	U. S. Weather Bureau.
Philadelphia, Pa.....		26	77	64.2	+6.4	87	21	39	1	2.55	-0.26	2.29	28-29	0	5	16	6	9	s.	U. S. Weather Bureau.
For the State.....				60.4	+5.7	89	21	18	25	2.06	-1.56	2.69	28-29	0	5	19	6	6	sw.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for October 1947

Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic City ^{1†}	Coast								1.04								.08																	2.29	
Bass River	do.								.10								.02		.02														1.16	1.30	
Belleplain	Tuckahoe								.28																									0.91	
Belmar ²	Coast								T.								T.	T.	.10											.08	.60	.85	1.41	2.96	
Belvidere	Delaware																			.10										.14	1.07	.31	.70	2.32	
Berlin ³	Mullica																																	1.25	
Boonton ³	Passaic																		T.	T.	.55									1.50	.09	.59	2.27		
Bridgeton	Delaware							.27																						.03	.64	.07	.09	1.10	
Brooklawn	do.																												1.65				.25	1.90	
Burlington	do.																												.35	.90	.30	.85	2.40		
Canoe Brook ³	Passaic									.03										.03	.19									1.06	.06	.64	2.01		
Canton ³	Delaware						.14	T.									T.													1.95	.01	.15	2.25		
Cape May [†]	Coast						1.16										.03														.12		.05	1.36	
Charlotteburg	Passaic																		.01	.19										.97	.09	.45	1.71		
Chartham ³	do.								.05											.01	.25									1.22	.11	.55	2.30		
Chatsworth	Coast																													1.50	.15	.43	2.08		
Clayton	Delaware								.08	.05							.03		T.											.06	.47	.14	.17	1.00	
Clinton	Raritan						T.											T.	T.	T.										.06	1.86	.21	.16	2.29	
Culvers Lake	do.																													T.	.97	.20	.60	1.77	
Elizabeth	Coast								.05											.03											T.	.98	.90	1.91	
Essex Falls ³	Passaic								.40												.76										.98	.88	.67	3.69	
Flemington	Raritan								.06											.33	.06									.12	1.51	.35	.36	2.79	
Freehold	do.						.01	.09											1.57												1.45	.19	.69	4.00	
Hammonton	Mullica						.17																								.90		.41	1.48	
Hightstown	Raritan						.09											T.	.48												1.07	.11	.56	2.31	
Indian Mills	Mullica						.14											T.	T.	T.										T.	.36	.04	.47	1.01	
Jersey City ²	Coast																		T.	.05										.13	.55	.46	.95	2.14	
Lakewood	Metedeconk						.04												.66												.36	.85	.93	2.34	
Lambertville	Delaware						.04						.01					.08	.03											.27	1.46	.21	2.05		
Layton	do.																		T.											T.	T.	.29	.67	0.96	
Little Falls ³	Passaic								.01											.04	.59										.95	.26	.57	2.42	
Long Branch [†]	Coast						.01										T.	.01	.22	T.										.01	1.33	.96	1.47	4.04	
Long Valley ³	Raritan																		.18												.88	.38	.65	2.09	
Manville ²	do.																													1.20	.35	.61	.32	2.48	
Marlton	Delaware						.08										.02		.18											.10	.78	.28	1.44		
Mays Landing	Gt. Egg Harbor						.18																								.33		.48	0.99	
Midland Park ²	Passaic																		.45											.50	.37	.12	.47	1.91	
Millville (Arpt.) [†]	Maurice						.16																								.02	.08	.03	.02	0.31
Moorestown ³	Delaware							.01										.03	.98	T.										1.32	.02			2.36	
Morris Plains	Passaic							T.	T.								.02		.66	.05										T.	1.26	.16	.74	2.89	
Newark ¹	Coast						T.	.04											T.	.04										.16	.58	.65	.73	2.20	
New Brunswick	Raritan							.01											T.	.06											1.19	.05	.81	2.15	
New Milford [†]	Hackensack																			.94										.22	.36	.27	.47	2.26	
Newton ³	Delaware																				T.										.93	.33	.84	2.10	
Orange t.	Passaic						.02																								.22	.31	.28	.54	1.37
Paterson ²	do.																	.03	.71											.44	.86	.17	.25	2.46	
Pemberton	Delaware						.05										.01	.01	T.	.45											1.60	.01	.41	2.10	
Phillipsburg	do.																		T.											1.38	.34	.04	.22	2.43	
Plainfield	Raritan						.04												.02	T.											.89	.44	.37	.45	2.21
Plainsboro	do.																		T.												* 1.68	T.	.30	1.93	
Pleasantville ³	Coast						.11	.18									.06	.02	.02												.44	.23	.03	1.09	
Rahway [†]	Rahway						.03												.04												*	.87	*	.87	1.81
Ridgefield	Hackensack						.02												.11												.07	.57	.01	1.14	1.92
Ringwood ³	Passaic																		.18	.08	.07										.88	.14	.41	1.76	
Rumson	Coast						.05												T.	.33											1.02	T.	.99	2.39	
Rutherford	Passaic						.02												T.	.32											.12	.40	.02	1.05	1.95
Sandy Hook [†]	Coast						.02												.07												.01	.92	.61	1.16	2.79
Somerville	Raritan						T.	.07											.08												.34	.22	.68	.45	2.10
Sussex	Hudson																		T.	T.											T.	.67	.60	.51	1.78
Swedesboro	Delaware						.04												1.27	.58												.12	.58	.12	2.01
Toms River	Coast						.07													2.07											.56	.65	.75	4.10	
Trenton ^{1†}	Delaware						.02											.01	T.	T.										1.12	1.27	T.	.22	2.64	
Trenton No. 22	do.						.02																								1.78	.91	.01	.32	3.04
Tuckerton	Coast						.28																									1.00	.30	.60	2.18
Vineland	Maurice							.35											T.													.20	.05	.50	1.10
Wanaque ³	Passaic																			T.	.04										1.12	.03	.34	1.53	
Westfield ^{3†}	Rahway								.07																							1.20		.60	1.87
Woodcliff Lake [†]	Hackensack																			.26											.24	.34	.29	.54	1.67
Woodstown	Delaware						.08																								1.63	T.		.10	1.81
New York, N. Y. [†]	Coast						.01												.01	.03															

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. † Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

§§ Incomplete.

Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

Canoe Brook ³	Evaporation.....	.096	.032	.064	.064	.192	.176	.192	.286	.160	.064	.080	.032	.048	.096	.048	.032	.064	.062	.094	.112	.096	.096	.112	.096	.064	.064	.064	•	.000	.000	.002	2.588
	Wind movement.....	9	4	2	5	6	10	9	0	3	7	2	10	2	1	8	4	6	2	3	4	12	5	6	27	9	7	11	12	6	9	10	211
Pleasantville ³	Evaporation.....	.096	.128	.064	.080	.064	.112	•	.050	.144	.080	.064	.064	.032	.032	.028	.052	.084	.048	.112	.240	.112	.000	.144	.080	.064	.064	.064	.120	.102	.046	.112	2.682
	Wind movement.....	25	21	13	6	25	10	14	12	20	24	27	5	1	23	12	7	8	22	19	27	9	14	32	22	12	17	26	53	20	40	69	645
Runyon.....	Evaporation.....	.180	.170	.160	.160	.160	.160	.160	.080	.110	.120	.140	.120	.120	.120	.080	.080	.080	.080	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.020	.060	.040	2.970
	Wind movement.....	4	5	4	6	4	6	4	6	3	5	4	4	5	5	5	5	8	5	7	7	10	7	11	9	20	12	11	10	10	25	24	41

- Measurement included in next following

•• Pan overflowed.

Daily Temperatures for October 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum... 61	68	66	68	69	70	65	70	63	64	65	66	69	70	69	68	70	73	77	76	85	69	78	62	64	72	71	72	70	65	53	68.6	
	Minimum... 37	48	50	61	55	53	54	63	61	59	60	59	58	57	59	65	64	66	65	60	59	61	60	53	47	56	60	66	65	53	46	57.4	
Belleplain.....	Maximum... 60	68	70	72	78	76	79	73	72	65	68	70	74	74	76	79	80	80	81	77	85	83	83	74	79	76	77	79	72	70	60	74.5	
	Minimum... 28	33	37	36	4	38	49	59	55	48	52	50	50	49	50	61	62	60	60	58	50	46	47	44	40	41	40	56	65	55	44	48.5	
Belvidere.....	Maximum... 63	72	74	76	75	82	83	76	71	71	75	60	73	81	85	86	80	79	79	80	86	75	85	75	64	70	68	77	73	64	54	74.8	
	Minimum... 32	40	33	42	46	45	46	50	54	37	40	40	49	46	42	47	60	63	63	49	48	45	46	36	29	44	46	50	61	51	43	45.9	
Boonton.....	Maximum... 59	65	71	72	72	78	78	73	70	66	72	72	71	80	79	82	79	74	71	78	82	75	80	52	64	77	76	79	74	67	59	73.2	
	Minimum... 36	38	35	39	44	41	45	45	45	35	33	35	38	45	39	43	46	57	62	58	46	42	39	37	27	30	42	45	45	53	43	42.2	
Bridgeton.....	Maximum... 58	66	71	72	73	74	80	72	65	69	72	73	73	75	79	80	76	79	80	76	84	78	81	67	69	74	76	79	74	67	59	73.6	
	Minimum... 32	39	41	42	45	46	55	60	56	49	51	51	53	54	52	63	63	66	63	56	52	53	45	40	48	53	58	64	51	45	51.6		
Burlington.....	Maximum... 58	67	72	71	76	84	81	78	77	78	77	75	75	76	88	80	81	80	78	83	82	80	76	76	71	74	75	77	75	66	59	75.7	
	Minimum... 44	45	45	56	45	55	59	57	55	48	47	42	46	52	60	56	62	65	62	66	61	52	47	42	36	44	34	25	38	42	46	59	52.1
Cause Brook.....	Maximum... 62	67	73	75	76	81	81	74	69	65	71	72	73	79	77	84	81	76	72	81	83	76	85	63	66	79	80	80	75	53	48	73.6	
	Minimum... 29	35	32	37	41	40	47	48	52	31	37	38	42	43	39	49	52	61	52	47	42	36	44	34	25	38	42	46	59	53	43	42.4	
Cape May.....	Maximum... 67	58	70	72	73	74	76	73	67	65	65	72	72	76	74	77	72	79	81	76	78	74	81	77	68	76	78	70	76	68	60	72.4	
	Minimum... 47	33	47	42	49	49	57	64	55	54	57	57	59	60	61	67	64	60	63	65	57	61	42	47	59	61	64	66	59	37	55.5		
Charlotteburg.....	Maximum... 58	63	70	72	74	79	80	75	72	65	71	71	72	79	80	85	82	80	74	80	81	78	85	75	68	78	77	71	65	55	74.0		
	Minimum... 33	38	30	33	38	36	43	47	28	30	32	41	46	33	40	41	52	61	54	53	41	35	35	21	41	41	42	59	42	39	40.4		
Chatsworth.....	Maximum... 59	68	74	73	79	81	82	71	70	69	75	75	76	79	81	81	82	83	78	78	85	80	86	70	71	78	80	80	74	67	56	75.5	
	Minimum... 30	30	34	42	41	39	49	54	61	44	44	44	49	49	42	55	60	63	64	65	54	43	49	39	30	51	43	49	63	50	44	47.5	
Clayton.....	Maximum... 61	69	73	75	75	78	80	74	68	68	73	75	75	77	79	77	77	79	79	81	85	78	82	71	68	75	76	79	76	68	64	74.7	
	Minimum... 31	40	40	43	45	46	53	62	56	46	46	48	51	52	48	60	63	66	62	56	51	50	49	47	35	46	49	56	63	51	45	50.2	
Elizabeth.....	Maximum... 64	66	75	77	76	83	82	72	69	67	72	72	71	80	78	84	77	80	73	82	87	77	87	77	66	78	81	80	75	68	57	75.3	
	Minimum... 32	39	40	42	46	40	49	54	44	49	41	52	49	44	51	52	52	62	62	51	46	45	48	43	32	43	48	50	60	51	43	47.1	
Flemington.....	Maximum... 64	72	76	79	83	83	75	69	68	73	75	74	82	83	86	75	77	77	78	86	78	87	78	69	81	78	80	74	61	43	75.9		
	Minimum... 36	39	38	42	45	41	49	52	54	40	38	37	47	47	44	50	58	64	62	50	50	45	43	40	33	46	48	60	51	44	46.2		
Freehold.....	Maximum... 65	68	75	75	78	80	82	72	66	65	68	70	63	76	77	80	79	80	74	76	83	77	82	72	62	76	78	78	76	66	51	73.2	
	Minimum... 32	39	40	47	46	45	51	55	55	42	39	39	50	52	41	52	61	62	63	54	54	51	50	41	32	47	49	55	61	51	43	48.4	
Hammononton.....	Maximum... 62	69	69	72	79	82	83	81	73	68	78	81	84	82	79	81	83	84	76	83	89	84	86	82	79	76	82	84	86	82	72	65	78.6
	Minimum... 31	42	41	36	45	48	52	53	52	46	46	48	46	48	44	59	60	61	64	63	52	51	47	45	33	46	52	47	51	52	45	48.6	
Hightstown.....	Maximum... 61	69	73	76	76	79	80	75	67	66	68	71	75	76	79	82	77	81	74	79	85	78	84	72	67	70	77	80	74	65	51	74.0	
	Minimum... 30	39	36	40	40	45	52	52	51	40	47	38	48	49	41	52	62	64	62	51	50	44	49	40	24	46	49	51	62	49	42	46.5	
Indiant Mills.....	Maximum... 60	68	74	75	77	79	81	73	65	67	72	75	76	80	81	80	81	80	81	80	86	80	85	74	70	77	78	81	75	66	54	75.2	
	Minimum... 24	34	32	40	39	45	50	53	51	43	43	43	45	49	41	57	63	64	63	64	63	64	43	50	37	26	46	46	64	43	46.4		
Jersey City*.....	Maximum... 61	69	70	68	73	77	77	71	66	64	68	68	68	76	71	79	77	76	71	79	84	71	85	62	64	76	77	73	70	70	55	71.5	
	Minimum... 36	45	43	57	46	57	44	54	47	39	44	42	47	49	51	51	52	58	60	57	58	53	43	42	38	49	52	55	60	60	41	49.0	
Lakewood.....	Maximum... 62	69	71	73	78	80	81	70	65	66	67	69	72	75	75	80	78	78	74	77	84	73	83	69	60	76	78	73	65	52	72.6		
	Minimum... 28	38	36	39	39	44	47	52	55	44	44	41	50	50	45	54	61	64	63	55	50	46	53	42	30	41	50	51	62	52	44	47.5	
Lambertville.....	Maximum... 61	58	74	74	76	82	82	69	67	59	64	75	75	80	80	80	83	72	77	87	84	82	67	84	82	67	79	78	79	74	67	52	73.3
	Minimum... 31	36	36	43	46	43	47	46	52	43	39	39	56	48	42	52	60	65	60	65	60	48	45	43	44	34	29	43	45	49	40	44	45.7
Layton.....	Maximum... 5-65	72	73	75	80	80	78	68	81	73	73	74	80	84	82	85	83	79	79	78	81	80	86	65	65	79	78	80	70	62	50	74.6	
	Minimum... 21	31	30	32	38	41	39	41	40	41	40	33	38	40	32	33	51	55	58	48	41	32	41	24	18	38	39	41	55	46	38	38.5	
Little Falls.....	Maximum... 62	66	73	74	75	81	80	74	71	68	73	72	81	78	85	86	78	74	81	84	78	81	65	65	79	79	79	79	72	59	48	74.0	
	Minimum... 35	39	36	40	43	44	51	51	52	35	39	38	48	47	41	45	58	67	65	54	48	43	48	35	30	42	42	50	59	51	43	45.9	
Long Branch*.....	Maximum... 59	67	70	72	73	75	76	71	65	66	68	69	70	75	71	77	77	74	71	78	83	71	84	59	68	76	79	76	72	65	50	71.2	
	Minimum... 35	41	41	44	45	49	50	58	48	45	43	44	53	54	47	54	62	63	63	54	51	53	38	34	48	54	59	62	50	45	49.7		
Long Valley.....	Maximum... 60	69	70	72	73	78	78	73	68	67	71	72	79	80	86	79	73	75	78	83	75	85	62	66	63	76	76	72	55	46	72.1		
	Minimum... 28	35	32	36	43	39	43	46	50	32	32	32	42	37	45	54	60	61	48	45	40	38	33	24	32	40	40	43	59	51	41	41.3	
Millville.....	Maximum... 60	67	72	73	75	77	82	72	65	67	74	77	76	78	81	82	78	79	80	78	86	80	84	67	69	70	77	78	76	67	55	74.3	
	Minimum... 30	40	39	43	43	47	52	59	54	49	54	52	51	52	51	63	63	64	60	57	54	52	51	36	36								

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CLIMATOLOGICAL DATA

UNIVERSITY OF ILLINOIS

NEW JERSEY SECTION

A. E. WHITE.
TRENTON, N. J.

Vol. LII. NOVEMBER 1947 No. 11

GENERAL SUMMARY

This was the coldest November since 1939. Practically all stations averaged colder than normal. There was a comparatively warm period from the 4th to 8th, but monthly maxima were generally in the low 60's instead of in the 70's as is usually the case. The coldest weather was during the last week of the month with several stations reporting monthly minima between 10° and 15°. On the average, there were 13 days with freezing temperatures recorded, the number of such days ranging from 7 at Atlantic City to 23 at Layton. All stations that did not have killing frosts in October had experienced same by the middle of November.

It was the wettest November since 1932, the average precipitation for the State being about twice the normal amount. Two stations recorded monthly amounts in excess of 11.00 inches. Heavy falls occurred on the 3-4th, and again on the 8th. The storm of the 3-4th was especially heavy near the Coast in Monmouth and Ocean Counties. Belmar reported a 24-hour fall of 5.57 and Toms River 5.12 inches. No station reported more than a trace of snow while most of them recorded none at all. Strong winds were registered on the 8th and 12th, especially on the Coast, but were not sufficient to do much damage.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 43 stations, was 42.0°, which was 1.9° below normal. The highest temperature was 67° at Clayton on the 2d, and the lowest, 10°, at Layton on the 30th. The highest monthly mean temperature was 46.3° at Cape May, and the lowest, 36.4° at Layton. The temperature departure from the normal for the year 1947, to date, for the State is +0.6°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 61 stations, was 6.49 inches, which was 3.23 inches above normal. The average total snowfall at 30 selected stations was a Trace, which was 1.3 inches below normal. The greatest monthly precipitation was 11.24 inches, at 2 stations, and the least, 3.14 inches at Atlantic City. The greatest amount of precipitation in any 24 consecutive hours was 5.57 inches at Belmar on the 4th. The average for the Highlands was 6.02 inches; for the Red Sandstone Plain, 7.37 inches; for the Southern Interior, 5.53 inches; and for the Sea Coast, 7.05 inches. The precipitation accumulated departure from the normal for the year 1947, to date, by sections, is: The Highlands, +5.28 inches; Red Sandstone Plain, +3.15 inches; Southern Interior, -1.33 inches; Sea Coast, -3.81 inches.

OBITUARY

We regret to learn of the death on December 27th, 1947, of Mr. John H. Brown, cooperative observer at Tuckerton, New Jersey. Mr. Brown was 79 years of age and a lifelong resident of Tuckerton. He was appointed cooperative observer in November, 1927 and served faithfully in that capacity for more than 20 years.

DATES OF MISCELLANEOUS PHENOMENA.

SLEET: 15, 24, 25. HEAVY FOG: 7, 23.
KILLING FROST: 2, 9, 10, 11, 13, 14, 18, 19, 20. THUNDERSTORMS: 1, 6.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.55	21	29.25	24	16.5	50	se.	8	79	66	73	54	573
Long Branch.....	30.54	21	29.24	24	12.4	46	nw.	12	78	63*	73	55	641
Newark.....	30.54	21	29.23	24	.....	40	nnw.	12	72	55	64	.....	658
Trenton.....	30.54	21	29.25	24	9.4	34	ne.	4	73	59*	.....	48	654

* Noon

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	41.8	76	18	4.53	.....	.....	.....	.....
1886.....	44.5	73	17	4.49	.....	.....	.....	.....
1887.....	41.5	72	13	1.94	.....	.....	.....	.....
1888.....	45.8	77	8	3.97	.....	10	.....	.....
1889.....	45.7	69	13	8.48	.....	13	.....	.....
1890.....	43.5	74	11	0.52	.....	8	13	12
1891.....	42.2	70	6	2.30	.....	4	12	10
1892.....	41.9	71	12	7.29	.....	11	8	9
1893.....	41.8	70	11	3.48	.....	7	10	11
1894.....	40.3	76	11	3.34	.....	10	13	7
1895.....	45.7	80	12	3.17	0	10	12	7
1896.....	48.2	78	12	3.05	3.2	8	9	9
1897.....	43.8	74	10	4.59	1.3	12	8	11
1898.....	42.4	70	11	6.76	14.7	14	10	9
1899.....	44.0	71	17	2.29	1.1	7	15	8
1900.....	47.5	79	15	3.43	T.	9	9	10
1901.....	38.5	69	10	2.38	0.8	6	12	9
1902.....	49.3	80	20	2.20	0.2	8	10	11
1903.....	39.9	79	3	1.26	T.	6	16	8
1904.....	40.2	69	6	2.18	1.6	6	12	10
1905.....	42.1	70	6	1.84	0.1	6	12	10
1906.....	43.6	70	8	1.61	2.3	6	16	7
1907.....	43.5	68	13	5.65	0.8	13	10	8
1908.....	43.1	72	2	0.96	2.2	4	14	8
1909.....	46.4	80	12	2.36	2.1	8	13	8
1910.....	40.4	71	13	3.79	1.4	9	5	13
1911.....	41.3	78	13	5.17	1.7	10	8	11
1912.....	45.3	76	11	3.43	1.3	6	15	8
1913.....	46.2	77	21	2.71	T.	7	14	7
1914.....	43.3	80	6	2.60	0.7	6	16	8
1915.....	44.0	75	17	1.69	0	8	14	8
1916.....	38.3	75	12	2.11	T.	8	16	5
1917.....	39.8	68	9	0.68	0.7	3	19	6
1918.....	43.9	71	12	1.87	0	7	14	6
1919.....	43.7	76	13	3.74	T.	11	13	7
1920.....	43.0	74	12	4.41	0.2	10	9	6
1921.....	44.3	79	18	4.26	0.1	14	9	6
1922.....	44.3	73	13	0.91	0.2	6	13	8
1923.....	43.1	72	11	2.51	0	7	11	8
1924.....	42.9	77	1	2.03	1.3	5	14	8
1925.....	42.0	76	10	3.40	0.7	9	14	8
1926.....	42.5	76	8	4.04	T.	9	13	8
1927.....	47.9	78	15	4.02	0.1	11	10	8
1928.....	45.1	78	13	1.90	0.3	9	10	9
1929.....	44.5	83	4	2.73	0.4	10	10	7
1930.....	44.1	78	2	3.70	0.2	9	12	6
1931.....	50.3	80	14	0.82	1.6	6	12	7
1932.....	42.0	71	3	7.81	T.	9	14	6
1933.....	40.6	78	7	1.01	0.6	7	13	7
1934.....	47.3	80	10	2.91	0.1	11	12	6
1935.....	47.8	78	8	4.95	2.1	18	7	6
1936.....	41.1	80	3	1.18	1.3	6	14	7
1937.....	43.7	72	10	4.56	0.2	9	16	5
1938.....	45.6	80	-7	3.42	12.6	12	14	6
1939.....	41.5	78	12	1.86	0.2	4	17	6
1940.....	43.5	76	10	4.66	1.0	10	8	7
1941.....	46.8	78	13	2.90	0	5	17	7
1942.....	44.9	78	12	4.14	T.	10	14	7
1943.....	42.4	73	9	2.89	T.	6	15	8
1944.....	43.9	76	13	6.44	0.9	9	10	8
1945.....	46.1	80	11	5.54	2.1	12	12	6
1946.....	48.3	78	10	1.45	T.	7	15	6
1947.....	42.0	67	10	6.49	T.	10	11	7
Period.....	43.9	83	-7	3.26	1.3	8	12	8

Climatological Data for November 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches					No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic City.....	Atlantic.....	8	74	45.9	+0.3	64	3	27	27	3.14	+0.32	1.13	3-4	0	9	7	10	13	w.	U. S. Weather Bureau.
Belleplain.....	Cape May.....	49	53	43.2	-1.6	64	4	16	30	6.19	+3.44	1.45	3-4	0	13	12	6	12	nw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	6							11.24		5.57	4	0	9	12	9	9	sw.	City Water Dept.
Belvidere.....	Warren.....	289	55	40.6	-0.9	60	27	19	30	4.95	+1.57	1.94	8	0	11	14	5	11	.....	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	6							5.69		1.42	3-4	0	9	9	10	11	nw.	Samuel H. McCulley.
Boonton.....	Morris.....	280	57	34.8	-1.9	60	27	19	30	9.14	+5.51	2.81	9	0	10	17	0	13	ue.	J. C. Water Works.
Bridgeton.....	Cumberland.....	30	64	43.8	-2.0	66	7	24	27	3.89	+1.07	1.02	12	0	9	13	6	11	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	6							4.50		1.71	8	0	9				.....	C. D. Scott.
Burlington.....	Burlington.....	12	61	43.2	-2.6	64	8	28	20	4.09	+0.92	1.50	8	0	8	16	4	10	nw.	Public Service E. & G. Co.
Canoe Brook [†]	Essex.....	180	17	34.8	-2.0	63	2	14	30	11.24	+7.41	3.82	8	T.	11	11	5	14	w.	N. J. Dept. of Conservation
Cape May.....	Cape May.....	17	59	46.3	-1.0	65	37	14	30	3.92	+1.28	1.32	3-4	0	8	14	9	7	nw.	Richard F. Umfrid, Jr.
Charlotteburg [†]	Passaic.....	760	55	38.4	-2.6	60	2	14	30	9.24	+5.56	3.55	8	0	9	10	2	18	uw.	Newark Water Dept.
Chatham.....	Morris.....	185	43							10.09	+6.61	3.16	8	0	10	15	5	10	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	7	42.6		65	7	15	30	5.88		1.65	3-4	0	9	8	10	12	uw.	Alfred L. Steveson.
Clayton.....	Gloucester.....	12	34	43.2	-1.5	67	2	22	27	4.69	+1.83	1.28	3-4	T.	10	12	10	8	nw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	4							5.32		1.85	7-8	0	12	10	4	16	.....	L. W. Klockner.
Culvers Lake [†]	Sussex.....	760	46							5.51	+2.32	1.73	8	0	8				.....	L. S. Depue.
Elizabeth.....	Union.....	33	68	42.9	-1.1	63	5	20	27	9.04	+5.80	3.14	7-8	0	11	18	1	11	ne.	Union County Park Comm.
Flemington, 2 mi. N.E.....	Hunterdon.....	134	61	42.4	-1.4	61	8	19	30	5.49	+2.28	1.90	8	T.	13	15	4	11	nw.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	43	42.2	-2.7	62	5	19	30	7.89	+3.96	2.58	3-4	0	9	10	5	15	nw.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	41							5.06	+1.89	2.49	3-4	0	8	17	4	9	w.	J. G. Wilson.
Hightstown.....	Mercer.....	100	54	41.7	-2.2	62	8	19	30	6.67	+3.41	2.20	8	0	8	11	7	12	nw.	James R. Pickering
Indian Mills [†] , 2 mi. W.....	Burlington.....	100	58	41.5	-2.5	63	47	16	27	5.19	+2.07	1.42	8	0	11	10	11	9	nw.	Edward Entwistle.
Jersey City.....	Hudson.....	135	49	41.8	-3.2	58	27	24	27	6.09	+2.93	1.81	11-12	0	10	14	6	10	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	43	41.9	-2.1	61	5	20	29	8.38	+5.25	3.37	3-4	0	10	8	10	12	nw.	R. W. Holman.
Lambertville.....	Hunterdon.....	75	60	47.4	-1.9			18	30	5.18	+1.96	1.78	7-8	T.	12	17	3	10	ne.	George Bailey.
Layton [†] , 3 miles NW.....	Sussex.....	489	46	36.4	-3.1	62	2	10	30	5.90	+2.75	1.67	8	0	9	10	5	15	sw.	A. M. Depue.
Little Falls.....	Passaic.....	157	44	42.2	-1.0	62	8	19	30	9.47	+6.00	3.10	8	T.	10	13	6	11	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	39	43.4	-1.2	62	5	22	30	9.12	+5.73	3.55	4	T.	10	8	7	15	w.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	17	39.4	-1.7	60	27	15	30	6.44	+1.96	2.47	8	T.	8	17	4	9	w.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	6							4.99		1.40	8	0	9	11	10	9	nw.	David Griscom.
Mays Landing.....	Atlantic.....	50	3							4.56		1.25	8	T.	11	12	8	10	nw.	Elmer Earle.
Millville, 2 mi. SW.....	Cumberland.....	63	7	42.9		66	7	20	30	4.12		1.08	11	0	8	6	13	11	nw.	Millville Airport.
Moorestown.....	Burlington.....	62	84	42.7	-0.5	63	77	24	30	4.12	+0.88	1.22	11-12	0	10				.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	6	40.0		60	8	16	30	9.06		3.20	8	T.	10	13	3	14	.....	James C. Long.
Newark.....	Essex.....	11	93	43.2	-0.8	61	5	25	30	7.37	+3.94	2.50	8	T.	10	8	10	12	ne.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	99	93	41.5	-2.3	56	3	21	30	7.16	+3.82	2.25	8	0	9	10	6	14	nw.	N. J. Experiment Station.
New Milford [†]	Bergen.....	12	29							6.99	+3.72	2.60	8	0	9				.....	Hackensack Water Co.
Newton.....	Sussex.....	769	64	38.0	-3.0	59	8	11	20	5.03	+1.80	1.36	4	T.	9	8	12	10	sw.	Charles M. Wheeler.
Orange [†]	Essex.....	110	7							8.26		3.32	8	0	10				.....	County Engineer.
Pateron.....	Passaic.....	100	76	42.3	-1.5	63	2	20	30	7.29	+3.99	2.46	8	T.	9	9	10	11	w.	J. W. Cook.
Pemberton.....	Burlington.....	60	18	42.5	-3.9	63	4	20	21	5.06	+1.83	1.78	8	0	10	12	7	11	nw.	Charles A. Doehrlert.
Phillipsburg.....	Warren.....	182	64	39.6	-2.4	65	7	21	20	4.56	+1.39	1.91	8	T.	12	13	5	12	.....	Town Engineer.
Plainfield.....	Union.....	120	59	42.0	-1.1	61	57	21	30	7.09	+3.75	2.33	8	0	11	7	10	13	nw.	S. K. Pearson.
Plainboro.....	Middlesex.....	110	6							5.76		1.74	3-4	0	8				.....	Walker-Gordon Lab.
Pleasantville [†]	Atlantic.....	8	49	42.7	-2.4	64	37	16	29	4.37	+1.34	0.84	4	0	11	7	10	13	nw.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	8							7.70		2.65	8	0	10	11	6	13	sw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	30	41.6	-1.6	62	2	20	30	7.40	+4.22	2.80	8	0	8	11	6	13	nw.	George P. Kirsten.
Runyon [†]	Middlesex.....	18	24	39.3	-3.5	58	27	12	30	7.13	+3.76	2.10	3-4	0	8	19	6	5	w.	N. J. Dept. of Conservation
Rutherford.....	Bergen.....	51	3	42.6		63	2	22	30	7.51		2.59	7-8	T.	11	10	6	14	nw.	Harold Scott.
Sandy Hook.....	Monmouth.....	22	49	45.4	-0.4	60	67	28	30	7.87	+4.62	2.96	3-4	0	10	11	10	9	w.	U. S. Coast Guard.
Somerville.....	Somerset.....	63	64	41.4	-1.5	61	27	17	30	7.16	+4.37	2.52	8	T.	13	12	3	15	w.	William E. Haver.
Sussex.....	Sussex.....	450	52	39.8	-1.7	61	47	17	30	6.44	+3.10	1.80	4	T.	11	8	5	17	ne.	Marshall Hunt.
Toms River.....	Ocean.....	33	26							10.10	+6.13	5.12	3-4	0	7				.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	75	43.4	-1.0	62	8	26	30	4.84	+2.11	1.31	8	0	10	8	10	12	n.	U. S. Weather Bureau.
Trenton No. 2.....	do.....	105	17	43.4	-1.4	62	77	24	30	5.70	+2.06	1.62	8	0	10				.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	54	44.4	-1.3	65	4	20	27	3.67	+0.55	1.61	3-4	0	9	14	3	13	nw.	John H. Brown.
Vineland.....	Cumberland.....	110	67							4.22	+1.09	1.32	4-5	T.	9	11	9	10	sw.	Robert Jones.
Westfield.....	Union.....	135	8							8.68		3.30	4-5	0	8	16	3	11	w.	Town Engineer.
Woodcliff Lake [†]	Bergen.....	103	29							6.80	+3.48	2.45	8	0	9				.....	Hackensack Water Co.
Woodstown, 2 mi. N.....	Salem.....	16	0	43.8		63	3	24	29	6.12		1.58	8	0	8	9	13	8	.....	J. De Geus.
New York, N. Y.....	.....	10	77	44.0	-0.2	60	5	26	30	6.50	+3.54	2.13	11-12	T.	10	9	10	11	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	26	77	45.0	-0.7	63	4	27	30	6.57	+3.87	2.21	3-4	T.	10	7	11	12	n.	U. S. Weather Bureau.
For the State.....	.....			42.0	-1.9	67	2	10	30	6.49	+3.23	5.57	4	T.	10	11	7	12	nw.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for November 1947

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ¹	Coast	T.		.66	.48				.63			.37	.10			.05	.08						T.	.67	.15								3 14
Bass River	do.	T.					1.27		.83				.85				.13																4.55
Belleplain	Tuckahoe	.08		.45	1.00		.46		1.10			.15	.60				.10	.10						.15	.60	.30	1.10						6.19
Belmar ²	Coast	T.		.05	5.57	.15	T.		2.14			.74	1.37				T.							.07	.34	.81							11.24
Belvidere	Dulaware			.47	.08	.04			1.90			.09	1.31				.06							.03	.35	.72	.10			T.			4.95
Berlin ³	Mullica	.50		.92	.50				1.01	1.25			1.93					.10						.50		.47							5.6
Boonton ³	Passaic	.15		.30	2.11	.10			.31	2.83			1.93										.27	.44	T.	.64							9.14
Bridgeton	Delaware			.57	.06				.78			.10	1.02				.11						.07	.57	.61								3.89
Brooklawn	do.			.12		.09			1.71			.08	1.03				.04						.41		.31	.19							4.50
Burlington	do.			.12		.10			1.50			* 1.52					.05						T.	.15	.85	T.							4.09
Cape Brook ³	Passaic	.37		.50	2.99	.12	.01		.42	3.40			2.42				T.							.45	.02	.54			T.				11.24
Canton ²	Delaware			1.04		.03			.69	.56			1.18				.12							.62	.50								4.74
Cape May ¹	Coast			.70	.62		T.		.96			.25	.50				.01							.72	.16								3.92
Charlotteburg	Passaic	.04		.25	.51	.11			3.55			1.69					T.							.36	.40	.18							9.34
Chatham ³	do.	.34		.38	.05	.08			.23	2.93			2.12				T.							.43	.01	.52							10.09
Chatsworth	Coast			* 1.65		.40			1.05			* 1.85					.11	T.						.55	.77	T.							5.88
Clayton	Delaware			.45	.83				1.03			.43	.70				.06	.01					.03	.62	.53								4.69
Clifton	Raritan			.92	.03	.27			1.85			.02	1.10				.02	.04					.02	.42	.58	.05			T.				5.32
Clivers Lake	do.			1.19	.36	.42			1.73			T. 1.05					T.							.15	.48	.13							5.51
Elizabeth	Coast	.22		2.34	.12	.16			3.14			.06	1.96	.01			T.	.02	T.				T.	.43	.58	T.							9.04
Essex Fells ³	Passaic	.34		1.75	.94				34	3.52			2.00				T.							.45		.63							9.95
Flemington	Raritan	.04		1.08	.01	.05			1.90			.04	1.44				.02	.03					.01	.44	.32	.11							5.49
Freehold	do.	.10		.02	2.56		.07		2.12			.05	1.85				T.						T.	.50	.62								7.89
Hammonton	Mullica			* 2.39								* 1.13				.10							*	.71	.73								5.06
Hightstown	Raritan	.05		1.85		.04			2.20			.05	1.53				T.						T.	.49	.46				T.				6.67
Indian Mills	Mullica			.03	1.22		.19		1.42			.01	.18				.07	.01					T.	.50	.50	.03							5.19
Jersey City ²	Coast			.02	1.63	.07	.03		1.68			.58	1.23				T.						.10	.25	.30								6.09
Lakewood	Metedeconk	.12		.02	3.33		.07		1.95			.08	1.65				T.	.04					T.	.40	.70								8.38
Lambertville	Delaware	.01		.90		.02			1.78			.02	1.51				.04	.01					.01	.44	.37	.01			T.				5.18
Layton	do.			1.09	.46	.69			1.67			.04	1.17				T.						T.	.16	.59	.06							5.90
Little Falls ³	Passaic	.27		1.29	.76	.07			1.35	2.75			1.95				T.							.39	.01	.72							9.47
Long Branch ²	Coast			.05	3.55	.12	.03		2.13			.66	1.45				T.						.11	.28	.74			T.	T.				9.12
Long Valley ³	Raritan					.10			* 2.47			1.30					.05						.40		.72								6.44
Manville ²	do.			T. 2.42	.15				2.35			.33	1.20				.04						.10	.20	.31								7.10
Marlton	Delaware			1.19		.14			1.40			.10	1.08				.07						.10	.34	.57								4.99
Mays Landing	Gt. Egg Harbor.			.18	.97				1.25			.20	.84				.01	.02					.02	.68	.07	.32							4.56
Midland Park ²	Passaic			1.32	.20	.09			3.53			T. 2.00												.44	.58	T.							8.16
Millville (Arpt.) ²	Maurice			.91	.05	T.			.92			1.08	T.				.08						.07	.65	.36								4.12
Moorestown ³	Delaware	.30		.91	.30	.08			.05	.19			1.22				.04						.43		.60								4.12
Morris Plains	Passaic	.05		2.38	.08	.12	T.		3.20			.04	2.07				T.	T.					.50	.42	.20			T.	T.				9.06
Newark ¹	Coast			.01	1.79	.09	.03		2.50			.78	1.18				T.						T.	.21	.59				T.	T.			7.37
New Brunswick	Raritan	.16		2.06		.15			2.25			.08	1.68				T.	T.					.19	.37	.40	.01							7.16
New Milford ²	Hackensack			1.09	.10	.06			2.60			1.00	1.20				T.						.12	.25	.57								6.99
Newton ³	Delaware	.09		.20	1.36	.18			.39	.96			.93				T.						.26		.66	T.			T.				5.03
Orange ¹	Passaic			.05	* 1.88	.02			3.32			.85	1.18										.13	.29	.54								8.26
Paterson ²	do.			.07	1.54	.12	T.		2.46			1.02	1.19										.12	.25	.61				T.				7.29
Pemberton	Delaware	.01		T. .73		.04		.14	1.78			.40	1.41				.06						T.	.40	.45	.05							5.06
Phillipsburg	do.			.02	.14	.04	.05		1.91			.20	.89				.04	.08	T.				.12	.18	.89			T.					4.56
Plainfield	Raritan			.02	2.10	.03	.19		2.33			.17	1.38				.02	T.					.03	.42	.40			T.	T.				7.09
Plainsboro	do.			.22	1.52	.02			1.52			.16	1.42										.15		.75								5.76
Pleasantville ³	Coast	.48		.67	.84	.01			.09	.58			.73				.09						*	.67	.03	.18							4.37
Rahway ²	Rahway			* 2.40	.13				2.65			* 1.71											*	.31	.47								7.70
Ridgefield	Hackensack			1.40	.25	.12			2.80			.62	1.60									.01	T.	.60	T.			T.					7.40
Ringwood ³	Passaic	.12	T.	.75	.66	.10	T.		1.28	2.13	T.		1.83										.39	.03	.46								7.75
Rumson	Coast	.20		.210		.12			2.08			.17	1.60											.40	.46								7.13
Rutherford	Passaic	.02		1.37	.16	.10	.01		2.49			.37	1.90				T.						.03	.43	.63			T.					7.51
Sandy Hook ²	Coast			.04	2.91	.11	.01		2.20			.66	1.42				T.						.05	.17	.30								7.87
Somerville	Raritan	.04		1.97	.04	.13			2.52			.06	1.88				.02	.03					.02	.40	.32	.03							7.46
Sussex	Hudson			1.80	.49	.24			1.63			.02	1.04				T.	.05					.02	.25	.70	.20			T.				6.44
Swedesboro	Delaware			.21	.77				1.87			.04	1.00				.05	T.					*	.53	.50	.05							6.02
Toms River	Coast			.512		.03			2.20			1.60					.10							.35	.70								10.10
Trenton ¹	Delaware			.26	1.02	.04	T.		1.31			.46	.82				.02	T.					.07	.37	.47	T.							4.84
Trenton No. 2 ²	do.			.37	1.17	.03	T.		1.62			.51	.97				.04						.12	.32	.55								5.70
Tuckerton	Coast			.01	.60		.10		.62			.26	.30													.15							3.67
Vineland	Maurice			1.31	.01				1.05			.10	.70																				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight.

³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. † Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

Amounts in italics are interpolated.

§§ Incomplete.

Daily Temperatures for November 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum... 55	57	64	64	59	62	61	63	53	54	59	59	55	48	44	51	45	48	45	43	47	54	56	57	46	43	41	52	51	38	52.5	
	Minimum... 49	48	57	51	46	49	52	42	38	37	45	39	37	31	34	41	36	31	34	32	31	38	45	42	36	32	27	37	33	28	39.3	
Belleplaine.....	Maximum... 61	57	63	64	60	63	62	63	54	58	57	58	55	46	45	50	45	45	44	49	52	56	56	52	46	43	53	54	42	53.8		
	Minimum... 44	46	49	52	40	38	39	45	35	30	29	45	30	23	28	36	40	23	33	22	21	29	44	35	40	23	21	18	17	16	33.0	
Belvidere.....	Maximum... 56	60	57	55	55	57	58	60	48	50	52	55	51	45	41	50	44	45	47	41	44	43	51	44	43	41	35	48	41	37	48.5	
	Minimum... 39	29	37	46	46	46	45	39	30	29	31	41	27	31	31	33	36	34	29	23	22	26	42	35	35	29	21	28	23	19	32.7	
Boonton.....	Maximum... 57	60	56	49	59	56	58	60	48	52	55	44	50	46	39	51	42	45	46	40	49	47	52	49	43	41	37	47	41	35	48.5	
	Minimum... 40	29	35	41	45	44	44	38	28	29	27	29	27	30	31	30	35	30	28	23	21	26	31	33	31	28	24	23	23	19	31.0	
Bridgeton.....	Maximum... 53	57	62	65	59	62	66	65	55	51	56	58	54	46	38	50	50	46	44	43	48	52	53	55	53	42	38	50	52	36	52.0	
	Minimum... 45	44	49	52	45	44	43	36	29	35	40	32	31	33	35	33	28	34	28	28	30	41	39	37	31	24	29	24	24	24	35.6	
Burlington.....	Maximum... 60	59	60	58	60	62	62	64	53	53	55	54	50	47	43	52	48	47	47	48	49	49	50	50	52	43	43	43	42	42	51.5	
	Minimum... 40	37	44	50	38	37	44	40	38	35	31	34	38	31	32	32	30	32	32	28	32	30	37	38	34	30	28	29	33	34	34.9	
Canoe Brook.....	Maximum... 56	63	56	50	61	55	60	60	49	54	56	48	51	49	39	52	46	48	45	42	48	45	53	49	45	45	41	49	42	46	50.2	
	Minimum... 36	27	31	41	44	46	41	49	31	29	25	32	24	27	29	33	35	32	24	17	18	21	28	29	37	25	17	20	15	14	29.3	
Cape May.....	Maximum... 54	59	65	64	60	64	65	64	55	53	60	60	55	48	42	50	50	45	45	47	51	53	55	52	57	44	42	51	55	49	54.2	
	Minimum... 45	49	53	56	49	53	52	45	36	40	51	42	45	37	31	41	39	21	35	33	33	32	48	41	30	25	29	21	14	14	28.6	
Charlotteburg.....	Maximum... 55	60	55	54	58	55	51	53	45	50	50	55	47	48	42	50	44	44	44	48	47	50	47	45	41	46	44	40	38	48	48.2	
	Minimum... 35	22	28	43	40	45	43	33	32	31	22	38	22	24	27	32	32	32	22	17	18	20	37	29	36	28	15	24	18	14	28.6	
Chatsworth.....	Maximum... 50	58	62	63	63	61	65	63	52	56	58	53	49	44	52	48	46	45	45	50	51	55	53	55	45	41	46	50	50	50	52.7	
	Minimum... 42	37	52	54	43	43	44	45	32	27	36	45	25	27	29	23	36	29	28	28	19	20	46	33	41	23	17	17	15	15	31.7	
Clayton.....	Maximum... 51	67	61	62	60	60	63	62	51	51	55	55	53	45	39	47	46	44	43	47	50	53	64	53	43	47	50	50	36	51.7		
	Minimum... 43	39	47	52	44	48	43	42	31	29	32	44	31	29	33	34	35	27	29	27	26	24	44	38	37	30	22	28	23	23	34.6	
Elizabeth.....	Maximum... 57	61	58	57	63	58	61	61	52	56	54	57	55	57	43	54	48	50	44	42	52	47	54	52	52	44	41	52	48	41	52.4	
	Minimum... 41	34	39	47	43	53	35	49	32	28	29	43	27	27	31	36	36	32	27	26	25	27	44	39	38	28	20	20	21	21	33.4	
Flemington.....	Maximum... 55	60	56	55	60	60	60	61	53	56	53	56	52	49	42	54	47	49	49	45	50	42	53	51	50	45	40	50	46	40	51.3	
	Minimum... 42	31	38	48	46	49	47	44	34	30	29	42	26	30	32	34	36	33	29	25	25	40	37	38	28	23	26	21	19	19	33.6	
Freehold.....	Maximum... 51	57	59	58	62	58	60	61	51	51	54	57	51	46	40	51	45	47	45	41	48	48	60	52	52	43	39	50	48	38	50.8	
	Minimum... 43	32	40	49	43	49	45	45	32	30	34	43	30	28	30	34	36	28	28	22	23	26	43	37	36	28	21	28	23	19	33.5	
Hammondtown.....	Maximum... 41	43	44	41	48	45	46	41	32	28	34	36	28	29	31	38	40	26	34	24	23	24	46	34	36	30	21	26	26	15	33.7	
	Minimum... 52	57	58	60	60	60	60	62	50	51	51	57	51	46	40	51	46	48	46	43	50	47	53	52	53	43	41	49	48	43	51.0	
Hightstown.....	Maximum... 40	32	37	46	40	49	43	41	33	29	29	42	29	29	30	33	35	28	27	42	21	24	43	36	38	28	21	25	23	19	32.4	
	Minimum... 51	56	61	63	62	61	63	62	52	52	55	58	53	47	40	50	45	47	47	42	50	50	54	54	54	43	39	51	50	37	51.6	
Indian Mills.....	Maximum... 42	36	45	51	43	41	39	42	38	27	27	43	26	25	28	33	37	25	30	19	18	20	43	32	36	27	16	23	18	17	31.4	
	Minimum... 53	58	57	57	58	55	55	57	48	52	55	55	50	45	38	51	42	45	44	39	45	44	50	46	44	40	37	47	44	35	48.2	
Jersey City*.....	Maximum... 42	35	40	42	43	49	49	39	36	35	42	38	35	33	32	36	32	33	31	28	34	29	41	29	34	32	24	34	29	24	35.9	
	Minimum... 50	56	59	60	61	60	59	61	60	50	53	56	51	45	40	50	44	47	44	42	45	49	54	53	59	42	39	49	48	38	50.5	
Lakewood.....	Maximum... 45	37	41	51	43	48	43	42	33	29	27	42	27	29	30	35	36	28	28	26	23	23	43	38	37	30	21	23	20	20	33.3	
	Minimum... 43	30	37	49	46	49	46	43	35	27	28	42	28	29	31	34	38	31	26	21	21	24	39	33	36	29	20	27	22	18	32.7	
Lambertville.....	Maximum... 55	62	58	50	50	53	55	59	46	43	52	43	46	45	39	52	41	44	45	42	50	40	53	39	42	44	35	46	38	36	46.8	
	Minimum... 28	19	25	41	38	43	41	38	25	24	21	35	18	25	23	35	30	30	15	11	15	18	32	28	32	30	12	25	14	10	26.0	
Layton.....	Maximum... 60	60	56	54	61	56	61	62	50	54	57	49	52	49	53	53	43	47	46	44	50	52	58	49	44	44	39	49	47	37	51.2	
	Minimum... 41	30	35	47	44	48	44	51	35	33	25	39	30	32	31	32	36	34	26	21	24	26	39	32	39	30	21	27	23	19	33.2	
Little Falls.....	Maximum... 50	57	59	60	62	59	59	61	51	50	58	56	50	48	43	52	44	46	45	44	47	51	55	55	46	44	39	50	50	36	50.9	
	Minimum... 45	45	51	48	46	51	46	51	34	33	30	38	30	33	30	38	30	33	28	31	28	31	48	46	43	36	30	32	25	22	36.0	
Long Branch*.....	Maximum... 55	60	55	50	56	58	58	59	48	60	54	56	51	47	38	50	44	48	46	40	48	45	51	47	44	40	36	47	42	36	49.0	
	Minimum... 44	25	32	39	43	39	42	41	31	26	25	42	28	27	28	30	33	31	26	20	20	21	35	34	30	23	18	22	20	15	29.7	
Long Valley.....	Maximum... 52	57	63	64	62	63	66	63	53	53	58	57	54	47	38	50	45	46	47	43	49	55	55	55	53	43	39	51	54	36	52.4	
	Minimum... 44	45	50	47	42	43	42	36	32	27	34	37	30	29	38	37	31	26	26	26	26	27	38	38	32	29	32	31	20	33.4		
Millville.....	Maximum... 53	57	60	62	60	63	63	61	53	57	57	52	41	38	50	45	46	45	42	49	50	53	52	44	42	38	50	48	36	50.6		
	Minimum... 36	36	45	47	45	46	47	41	37	32	31	36	35	32	32	33	35	32	29	27	26	25	45	40	35	31	27	30	26	24	34.8	
Moorestown*.....	Maximum... 55	58	55	64	58	59	57	60	52	51	50	55	50	47	44	52	46	45	46	43	49	45	53	49	49	42	38	48	42	38	49.6	
	Minimum... 39	26	32	45	41																											

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

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24 NEW JERSEY SECTION

A. E. WHITE.
TRENTON, N. J.

VOL. LII. DECEMBER 1947 No. 12

GENERAL SUMMARY

December, like November, this year averaged somewhat colder than normal. The warmest days were the 3d and 16th, but only a few stations reported monthly maxima above 60°. The coldest mornings were the 25th and 30th with five stations in north Jersey reporting zero or lower. The monthly range in temperature for the State from -4° to 65° was less than usual for December.

Precipitation was 81 percent of normal and well distributed through the month. Totals ranged from 1.39 inches at Millville to 5.29 inches at Long Branch. The outstanding feature of the month was the heavy snowfall on the day after Christmas. Snow began in the early morning of the 26th and continued for about 24 hours covering the entire State with depths ranging from about 6 inches in the southern part to more than 29 inches at some stations in the northeast. At several stations on the east side of the State and north of Ocean County, the snowfall was the greatest ever recorded from any single storm. Some of the heavier falls from this storm were: Elizabeth, Jersey City, Rahway, Little Falls, and Newark, 26.0 inches; Ridgely, 27.0 inches; Long Branch, Rutherford, and Ringwood, 29 inches or more. Numerous other stations recorded between 15 and 20 inches of snow. While the snow depth from this storm, over a limited area, exceeded that in the blizzard of 1888, drifting and the consequent isolation of communities appears to have been much less severe.

Winds of gale force occurred in coastal areas on the 16th.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 42 stations, was 32.0°, which was 1.6° below normal. The highest temperature was 65° at Chatsworth on the 3d, and the lowest, -4°, at Layton on the 25th. The highest monthly mean temperature was 37.2° at Cape May, and the lowest, 27.2° at Layton. The temperature departure from the normal for the year 1947, to date, for the State is +0.4°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 59 stations, was 2.85 inches, which was 0.68 inch below normal. The average total snowfall at 30 selected stations was 18.6 inches, which was 13.3 inches above normal. The greatest monthly precipitation was 5.29 inches, at Long Branch, and the least, 1.39 inches at Millville. The greatest amount of precipitation in any 24 consecutive hours was 3.56 inches at Long Branch on the 26-27th. The average for the Highlands was 2.82 inches; for the Red Sandstone Plain, 3.39 inches; for the Southern Interior, 2.05 inches; and for the Sea Coast, 3.28 inches. The precipitation accumulated departure from the normal for the year 1947, to date, by sections, is: The Highlands, +4.60 inches; Red Sandstone Plain, +3.02 inches; Southern Interior, -2.83 inches; Sea Coast, -4.34 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 5, 26.
SLEET: 5, 10, 11, 15, 23, 26.

UNIVERSITY OF ILLINOIS

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.41	20	29.33	16	14.9	58	se.	16	76	64	73	75	897
Long Branch.....	30.4	20	29.31	16	14.4	46	nw.	16	72	63*	67	63	987
Newark.....	30.46	20	29.31	16	.....	40	ws.	16	69	55	61	.....	994
Trenton.....	30.48	20	29.36	16	9.3	29	nw.	28	66	53*	.....	55	960

* Noon

COMPARATIVE DATA FOR DECEMBER

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	35.3	60	6	3.15	.....	.....	.....	.....
1886.....	29.1	60	-2	3.51	.....	.....	.....	.....
1887.....	33.7	62	6	5.29	.....	10	.....	.....
1888.....	34.9	65	5	3.69	.....	8	.....	.....
1889.....	41.5	71	8	1.62	.....	9	.....	.....
1890.....	30.9	56	3	3.89	.....	10	.....	.....
1891.....	40.9	71	9	4.25	.....	8	11	10
1892.....	30.4	68	1	1.87	.....	8	13	9
1893.....	34.9	70	5	3.39	.....	16	11	11
1894.....	34.8	66	-3	4.36	.....	9	12	10
1895.....	37.2	70	3	2.61	.....	6	11	10
1896.....	31.3	64	-15	1.48	10.7	4	14	8
1897.....	35.1	69	-3	4.90	3.4	11	8	12
1898.....	33.3	66	-2	3.53	2.0	9	12	9
1899.....	35.5	69	-1	2.11	0.5	7	14	10
1900.....	34.4	64	-2	2.59	4.1	6	14	7
1901.....	32.6	68	-8	7.30	2.1	11	12	10
1902.....	31.7	62	-11	7.23	9.1	13	13	11
1903.....	28.6	56	-13	4.08	9.2	9	14	8
1904.....	27.0	60	-15	3.19	21.1	12	10	7
1905.....	36.3	61	-5	3.65	1.5	7	14	9
1906.....	33.0	70	-5	3.99	1.4	13	9	14
1907.....	36.6	70	-3	4.91	5.9	9	12	11
1908.....	34.0	72	1	3.63	7.8	11	10	13
1909.....	29.8	60	-15	4.45	12.6	5	14	8
1910.....	26.5	58	-14	2.79	11.3	9	11	10
1911.....	38.4	70	2	3.77	5.6	11	10	7
1912.....	36.9	68	-1	4.73	11.0	9	12	9
1913.....	37.7	63	-11	3.03	0.8	7	13	9
1914.....	31.1	66	-9	5.86	2.4	12	10	15
1915.....	31.9	64	3	4.82	13.6	8	12	9
1916.....	32.3	70	-8	4.61	12.6	11	13	8
1917.....	24.8	54	-21	3.18	11.5	8	13	7
1918.....	37.5	66	9	3.92	0.5	10	12	7
1919.....	28.8	67	-18	2.98	6.8	12	10	13
1920.....	36.4	69	7	5.10	1.0	8	11	8
1921.....	32.3	64	-4	2.37	6.2	9	13	10
1922.....	32.5	65	-8	3.86	7.3	12	9	13
1923.....	40.8	69	9	4.14	2.6	12	13	7
1924.....	32.8	68	-4	2.58	0.4	8	10	13
1925.....	34.0	61	-5	2.84	0.6	10	13	7
1926.....	28.4	52	-7	3.44	8.2	11	11	7
1927.....	35.3	70	2	4.54	T.	12	13	6
1928.....	36.3	63	3	1.64	2.7	8	15	5
1929.....	33.8	68	2	3.01	4.1	10	11	6
1930.....	33.0	60	-5	2.67	5.2	8	10	7
1931.....	39.6	72	7	2.27	0.4	9	13	5
1932.....	36.0	69	-6	3.08	10.1	13	12	6
1933.....	31.8	72	-18	3.19	7.4	12	12	5
1934.....	33.2	69	-3	2.90	0.1	8	14	7
1935.....	28.9	60	-14	1.67	9.7	9	10	8
1936.....	37.5	67	-3	6.29	0.6	12	12	6
1937.....	33.2	70	0	1.75	0.6	7	13	6
1938.....	34.8	67	1	2.80	1.4	10	11	6
1939.....	35.2	69	-1	1.54	8.9	8	10	8
1940.....	37.0	67	-4	3.00	3.1	10	12	7
1941.....	37.2	70	0	3.70	0.4	7	12	8
1942.....	30.0	67	-17	4.55	7.0	11	10	7
1943.....	31.1	62	-10	1.41	0.1	3	16	8
1944.....	30.7	58	-14	3.02	5.7	9	11	7
1945.....	29.0	64	-11	5.03	14.5	11	11	5
1946.....	36.5	74	2	2.38	2.0	7	12	9
1947.....	32.0	65	-4	2.85	18.6	8	15	8
Period.....	33.6	74	-21	3.53	5.3	9	12	11

Climatological Data for December 1947

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic	8	74	36.2	-0.2	58	8	18	20	2.34	-1.60	1.25	15-16	6.5	8	11	6	14	w.	U. S. Weather Bureau.
Belleplain.....	Cape May	49	53	33.4	-2.0	62	3	6	30	2.75	-0.79	1.25	16	6.0	6	14	4	13	nw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth	19	6							3.28		1.84	26		9	18	8	5	nw.	City Water Dept.
Belvidere.....	Warren	289	55	31.4	+0.4	56	3	6	30	2.39	-1.35	0.89	26	18.5	7	14	11	6	n.	Miss C. S. Hixson.
Berlin, 1 mile W.	Camden	70	6							2.12		1.60	15-16	7.2	2	17	6	8	n.	Samuel H. McCulley.
Boonton.....	Morris	280	57	29.6	-0.7	57	3	6	25	3.38	+0.10	1.75	27		8				nw.	J. C. Water Works.
Bridgeton.....	Cumberland	30	64	33.8	-2.2	59	8	15	30	1.96	-1.50	0.90	15-16	6.5	6	19	6	6	nw.	Bennett K. Matlack.
Brooklawn.....	Camden	30	6							1.55		0.74	15	6.5	4				n.	C. D. Scott.
Burlington.....	Burlington	12	61	33.6	-1.4	51	2	18	14	1.95	-1.84	0.85	15-16	6.0	5	19	5	7	w.	Public Service E. & G. Co.
Canoe Brook	Essex	190	17	29.6	-1.0	61	3	2	25	3.39	+0.33	2.19	26-27	24.5	9	17	6	8	nw.	N. J. Dept. of Conservation
Cape May.....	Cape May	17	59	37.2	+0.1	57	16	19	21	2.16	-1.41	1.26	15-16		5	17	6	8	nw.	Richard F. Umfrid, Jr.
Charlotteburg	Passaic	760	55	29.7	-0.7	60	3	0	25	4.00	+0.09	2.00	26	25.9	10	9	3	19	nw.	Newark Water Dept.
Chatham.....	Morris	185	43							3.98	+0.12	2.40	26-27		9	17	7	7		Edward P. Molitor.
Chatsworth.....	Burlington	90	7	33.3		65	3	6	30	2.18		1.01	15-16	8.5	5	12	14	5	nw.	Alfred L. Stevenson.
Clayton.....	Gloucester	120	34	33.3	-1.4	58	8	11	30	2.19	-1.34	0.99	15-16	8.5	9	17	10	4	nw.	Harry P. Campbell.
Clinton.....	Hunterdon	300	4							2.66		1.23	26	16.5	7	18	3	10	nw.	L. W. Klockner.
Culvers Lake	Sussex	760	46							2.21	-0.95	0.66	26	18.0	7				n.	L. S. Depue.
Elizabeth.....	Union	33	68	32.2	-1.5	60	3	11	25	4.59	+0.91	3.11	26-27	28.9	10	17	7	7	ne.	Union County Park Comm.
Flemington, 2 mi. NE.	Hunterdon	134	61	32.6	-0.2	62	3	8	25	2.73	-0.75	1.10	26	15.5	9	19	6	6	nw.	Hiram E. Deats.
Freehold.....	Monmouth	194	43	32.5	-1.6	59	3	10	25	2.30	-1.22	0.80	26-27	18.2	8	15	9	7	nw.	Moreau Plant Co.
Hammonton.....	Atlantic	95	41					14	21	2.47	-0.89	1.09	15	7.0	5	16	4	11	w.	J. G. Wilson
Hightstown.....	Mercer	100	54	32.0	-1.2	59	3	8	30	2.38	-0.91	0.96	26-27	16.1	7	17	9	5	w.	James R. Pickering
Indian Mills, 2 mi. W.	Burlington	100	58	32.4	-1.9	62	3	5	30	2.09	-1.69	0.94	15-16	6.0	5	14	11	6	nw.	Edward Entwistle.
Jersey City.....	Hudson	135	49	32.0	-2.7	56	3	15	20	3.31	-0.13	1.95	26-27	29.4	10	14	13	4	sw.	J. C. Water Dept.
Lakewood.....	Ocean	54	43	32.3	-2.0	61	3	14	20	2.68	-1.00	1.12	26	18.0	8	11	12	8	nw.	R. W. Holman.
Lambertville.....	Hunterdon	75	60	31.9	-1.3	58	3	9	30	2.69	-0.85	0.93	26	13.3	9	19	5	7	nw.	George Bailey.
Layton, 3 miles NW.	Sussex	480	46	27.2	-1.0	59	3	4	25	1.86	-1.36	0.99	26	17.2	9	11	2	18	nw.	A. M. Depue.
Little Falls.....	Passaic	157	44	31.8	-0.7	56	15	7	25	3.50	-0.17	1.94	26-27	28.5	8	14	11	6	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth	34	39	33.0	-1.4	63	3	13	30	5.29	+1.66	3.56	26-27	32.9	9	14	11	6	nw.	Storm Warn. Display Sta.
Long Valley.....	Morris	660	17	29.4	-0.4	58	3	5	25	3.20	-0.04	1.50	26	24.0	6	19	6	6	nw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	6							1.80		0.90	15-16	6.3	6	16	8	7	nw.	David Griscorn.
Mays Landing.....	Atlantic	50	3							2.69		1.30	15-16	6.0	6	18	6	7	nw.	Elmer Earle.
Millville, 2 mi. SW.	Cumberland	60	7	33.4		60	8	11	30	1.39		0.50	15-16	5.0	8	9	13	9	w.	Millville Airport.
Moorestown.....	Burlington	62	84	33.3	-0.5	60	3	10	30	2.00	-1.43	0.88	15-16	7.6	6				nw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	400	6	30.5		59	3	5	25	3.60		2.09	26	24.4	7	13	4	14	nw.	James C. Long.
Newark.....	Essex	11	93	32.9	-0.5	59	3	17	25	3.78	+0.01	2.50	26-27	29.1	10	12	11	8	nw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex	99	93	32.1	-1.3	56	16	11	25	3.28	-0.15	1.27	26	21.5	8	8	11	12	nw.	N. J. Experiment Station.
New Milford.....	Bergen	12	29							3.53	+0.50	1.93	26		9				nw.	Hackensack Water Co.
Newton.....	Sussex	769	64	27.4	-2.8	57	3	0	25	2.64	-0.70	1.10	26-27	15.6	9	4	17	10	nw.	Charles M. Wheeler.
Oranget.....	Essex	140	7							3.95		1.35	26		7				n.	County Engineer.
Paterson.....	Passaic	100	76	32.6	-0.7	60	3	10	25	4.15	+0.40	2.55	26-27	26.4	11	15	9	7	w.	J. W. Cook.
Pemberton.....	Burlington	60	18	32.9	-2.5	61	3	8	30	2.15	-0.31	0.98	15-16	7.6	7	18	6	7	nw.	Charles A. Doehlert.
Phillipsburg.....	Warren	182	64	29.4	-2.2	58	3	11	30	2.53	-0.97	0.95	26	14.3	8	13	11	7	n.	Town Engineer.
Plainfield.....	Union	120	59	31.8	-1.2	58	3	10	25	3.77	+0.16	2.31	26	25.9	11	14	11	6	nw.	S. K. Pearson.
Plainsboro.....	Middlesex	110	6							2.74		1.52	21	13.0	4				n.	Walker-Gordon Lab.
Pleasantville	Atlantic	8	49	32.8	-2.2	61	3	8	1	2.06	-1.71	1.32	15-16	6.5	4	16	10	5	nw.	N. J. Dept. of Conservation.
Rahway.....	Union	20	8							2.65		1.30	26	27.0	9	18	4	9	nw.	Louis Fontenelli.
Ridgefield.....	Bergen	80	30	31.8	-0.1	58	3	10	30	4.25	+1.07	2.53	26	31.0	9	18	6	7	nw.	George P. Kirsten.
Runyon	Middlesex	18	24	28.3	-3.1	57	8	0	25	3.80	+0.69	2.20	26-27	21.5	7				w.	N. J. Dept. of Conservation
Rutherford.....	Bergen	51	3	32.1		60	3	11	25	4.63		3.04	26	34.0	10	8	10	13	nw.	Harold Scott.
Sandy Hook.....	Monmouth	22	49	34.4	-0.8	54	3	18	30	3.35	-0.69	1.87	26	22.2	10	16	8	7	w.	U. S. Coast Guard.
Somerville.....	Somerset	65	64	31.2	-1.4	61	3	8	25	2.57	-0.93	1.26	26-27	18.5	8	17	6	8	nw.	William E. Haver.
Sussex.....	Sussex	450	52	29.4	-0.6	59	3	-1	25	3.70	+0.42	1.95	26	24.0	9	11	7	13	w.	Marshall Hunt.
Toms River.....	Ocean	33	26							3.22	-0.75	1.20	15-16	18.0	8				n.	Robt. F. Snyder.
Trenton.....	Mercer	56	75	33.9	-0.5	58	16	17	30	1.88	-1.47	0.79	15-16	9.2	9	12	10	9	nw.	U. S. Weather Bureau.
Trenton No. 2.....	do.	105	17	33.6	-0.3	58	3	16	30	2.50	-0.53	0.98	15-16	12.2	8				n.	Edward H. Ristow.
Tuckerton.....	Ocean	23	54																n.	John H. Brown.
Vineland.....	Cumberland	110	67							2.01	-1.66	0.90	15		5	17	8	6	sw.	Robert Jones.
Westfield.....	Union	135	8							2.86		1.50	26-27	28.0	8	16	7	8	w.	Town Engineer.
Woodcliff Lake	Bergen	103	29							3.35	+0.28	1.58	26		8				n.	Hackensack Water Co
Woodstown, 2 mi. N.	Salem	16	0	33.0		56	16	12	30	1.61		0.71	15-16	6.7	4	12	10	9	n.	Charles Clark.
New York, N. Y.		10	77	33.8	-1.2	58	3	16	30	3.87	+0.25	2.67	26-27	29.0	10	12	12	7	nw.	U. S. Weather Bureau
Philadelphia, Pa.		26	77	35.8	-0.5	58	16	20	20	1.89	-1.54	0.87	15-16	7.2	8	12	8	11	nw.	U. S. Weather Bureau
For the State				32.0	-1.6	65	3	-4	25	2.85	-0.68	3.56	26-27	18.6	8	15	8	8	nw.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

‡ Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for December 1947

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast					T.		.03	.10		.43	.02				.46	.79							.08		T.	.43	T.					2.34	
Bass River	do.																																2.75	
Belleplain	Tuckahoe					.10		.27		T.	.49						1.25							.14			.50						3.28	
Belmar ²	Coast					.08		.05	.09		.18	T.				.21	.56							.18		1.84	.09						2.39	
Belvidere	Delaware					.09		.06	.22								.65							.32			.89	.16					2.12	
Berlin ²	Mullica					T.				T.		T.					1.60																3.38	
Boonton ²	Passaic						.09		.17			.14					.85							.09	.11		.40	1.75	T.	T.			1.96	
Bridgeton	Delaware							.28		.10	.28					.08	.82							T.			.18						3.88	
Brooklawn	do.					T.		.18			.18						.74										.45						1.55	
Burlington	do.					T.		.10		.28							.85							.10			.62						1.95	
Cane Brook ²	Passaic						.07		.19	.01		.11					.60							.06	.16		.34	1.85					3.39	
Canton ²	Delaware							.22		T.		.30					.72							T.			.38	T.					1.62	
Cape May ¹	Coast							.02		T.	.51						1.26							.02			.35						2.16	
Charlotteburg	Passaic					.09	.08		.29			.16					1.02							.27	.09		.90	1.10					4.00	
Chatham ²	do.						.10		.24	.02		.13					.80							.06	.13		.10	2.40					3.98	
Chatsworth	Coast							.22			.35						1.01							.05			.55	T.					2.18	
Clayton	Delaware					.04	.01	.23		.05	.19					.03	.96							.04			.64						2.19	
Clinton	Raritan					.06		T.	.23		.11						.76							.27			1.13	.10	T.				2.66	
Culvers Lake	do.					T.	.12	.20			.13						.58							.33			.66	.24				T.	2.21	
Elizabeth	Coast					.03	.03	.20			T.	.11					.90							.09	.10		2.57	.54	.02				4.59	
Essex Fells ²	Passaic						.60	.16	T.		.10	T.					.76							T.	.13		.88	1.10					3.73	
Flemington	Raritan					.04	.04	T.	.26		.14						.73							.22	.05		1.10	.15	T.				2.73	
Freehold	do.					.05		T.	.22		.21						.92							.05	.05		.	.80	T.				2.30	
Hammononton	Mullica					T.		.28			.19						1.09							.21			.70						2.47	
Hightstown	Raritan					.08		.15		.20		.35					.88							.11			.	.96	T.				2.38	
Indian Mills	Mullica					T.	T.	.20		T.	.35						.94							.07			.53	T.					2.09	
Jersey City ²	Coast					.10		.05	.18	.12						.19	.50							.20	.02		1.85	.10	T.				3.31	
Lakewood	Metedeconk					.04	.05	.18		.20							.73							.13			1.12	.23					2.68	
Lambertville	Delaware					.08	.02	.21		.25	.19						.75							.26			.87	.06					2.69	
Layton	do.					.	.06	T.	.08		.06						.41							.23	.03		.78	.21					1.86	
Little Falls ²	Passaic					.07		.19		.12							.97							.06	.15		.59	1.35	T.				3.50	
Long Branch ¹	Coast					.12		.04	.10	.16	.02					.19	.79							.31	T.		3.43	.13	T.				5.29	
Long Valley ²	Raritan						.10	.20		.15							1.10							.15			1.50						3.26	
Manville ²	do.					.05		.05	.06	T.	T.					.20	T.							T.			1.35	T.					1.71	
Marlton	Delaware					.01		.18		.30							.90							.06			.35						1.80	
Mays Landing	Gt. Egg Harbor					.01		.13		.30							1.30							.10			.85						2.69	
Midland Park ²	Passaic					.08		.02		.01	T.						.90							.29			1.95						3.25	
Millville (Arpt.) ²	Maurice					.01		.03	.15	.35						.31	.19							.10			.25						1.39	
Moorestown ²	Delaware					T.	.01	.13	T.	.28		.					.88							T.			.	.70					2.00	
Morris Plains	Passaic					.04		T.	.20	.12							.91							.24	T.		1.27	.82					3.60	
Newark ¹	Coast					.09		.02	.13	.10	T.					.20	.52							.17			2.49	.01	.05			T.	3.78	
New Brunswick	Raritan					.03	.04	T.	.21	.18							.72							.10			1.27	.73	T.				3.28	
New Milford ²	Hackensack					.12		.05	.21	.10						.17	.63							.20			1.93						3.53	
Newton ²	Delaware						.17	.27	T.	.17		.17					.47							.10	.14		.20	1.10	.02				2.64	
Orange ¹	Passaic					.06				.18	.10						.90								.22			1.35	1.14					3.95
Paterson ²	do.					.11		.10	.18	.11	.01					.27	.66							.15			2.45	.10	.01				4.15	
Pemberton	Delaware					T.	.02	.19	T.	T.	.33						.98							.05	.01		.57	T.					2.15	
Phillipsburg	do.					T.		.04	.37	T.	.14	T.				.25	.49							.24			.95	T.	T.				2.53	
Plainfield	Raritan					.07		.02	.23	.12	.02					.01	.73							.22			2.31	.03	.01				3.77	
Plainsboro	do.					.12																				1.00							2.74	
Pleasantville ²	Coast																1.32							.07	.02		.65	T.					2.06	
Rahway ¹	Rahway					.05		.	.19	.	.18						.83							.10			1.30						2.65	
Ridgefield	Hackensack					.09		.02	.20	.02	.10						.82							.30			2.53	.17	T.				4.25	
Ringwood ²	Passaic						.20	.39		.16							1.07							.12	.21		.39	2.30					4.84	
Rumson	Coast					.11		.22		.22							.89							.16			.	2.20					3.80	
Rutherford	Passaic					.08		.04	.20	T.	.13					.01	.77							.30			3.04	.05	.01			T.	4.63	
Sandy Hook ²	Coast					.10		.03	.12	.19	.01					.18	.53							.23			1.87	.09	T.				3.35	
Somerville	Raritan					.05	.02	T.	.24		.15						.65							.20	T.		1.24	.02					2.57	
Sussex ¹	Hudson					.10	.10	T.	.40																									

Daily Temperatures for December 1947

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum... 41	51	58	49	52	47	49	58	42	36	39	41	34	38	52	58	41	52	36	35	42	40	49	37	36	35	38	37	36	40	40	43.0
	Minimum... 22	33	38	36	35	40	34	42	29	26	30	27	27	23	33	35	28	29	26	18	30	29	33	25	22	27	30	27	22	21	30	29.3
Belleplain.....	Maximum... 41	56	62	49	51	54	48	55	38	37	40	36	35	44	60	44	52	48	37	42	45	49	42	36	32	38	38	34	38	49	44.8	
	Minimum... 10	12	22	33	33	32	23	40	29	29	23	12	13	12	36	22	25	25	12	15	21	30	25	12	25	28	25	22	6	14	22.1	
Belvidere.....	Maximum... 37	49	56	47	36	42	42	59	46	36	37	39	35	34	37	55	38	41	39	33	40	45	35	33	32	30	37	33	29	32	38.9	
	Minimum... 15	22	28	35	30	33	35	37	31	23	30	18	26	15	17	33	29	25	20	14	20	25	29	19	7	18	28	23	19	6	24	23.8
Boonton.....	Maximum... 39	54	57	42	42	39	44	52	37	39	36	36	34	34	53	48	41	45	32	36	41	43	33	31	33	32	37	37	25	32	32	38.9
	Minimum... 19	19	22	28	28	26	32	33	32	24	20	17	12	14	18	26	27	17	15	15	20	26	19	6	8	23	37	37	18	15	16	20.4
Bridgeton.....	Maximum... 33	50	50	50	48	50	46	59	47	38	46	40	34	36	51	56	40	51	40	33	41	43	47	38	35	35	35	35	31	31	40	40.9
	Minimum... 18	22	22	26	34	34	28	31	24	30	25	24	20	21	38	24	20	25	17	24	26	32	24	19	25	24	25	22	15	23	25.0	
Burlington.....	Maximum... 40	51	51	49	44	45	45	50	50	39	39	39	35	39	39	46	38	45	35	36	40	43	40	35	35	35	36	35	31	31	40	40.9
	Minimum... 28	28	29	36	30	27	30	33	30	24	29	26	22	18	20	36	22	33	27	18	25	24	32	20	23	27	30	28	18	18	28	26.4
Canoe Brook.....	Maximum... 41	54	61	46	42	42	46	52	39	41	38	39	37	36	54	47	41	46	36	38	44	43	33	33	33	33	33	31	35	35	34	40.6
	Minimum... 11	15	21	35	26	28	27	26	32	21	22	12	8	13	18	25	23	15	13	19	25	18	2	11	22	12	16	13	18	18	18.5	
Cape May.....	Maximum... 41	53	54	49	51	50	53	53	40	37	40	39	38	45	57	44	48	46	35	41	42	49	42	38	37	38	37	38	37	34	41	41.1
	Minimum... 21	33	38	35	43	39	37	44	31	26	32	33	34	32	25	37	33	38	27	20	19	28	32	30	21	27	28	25	24	22	30.2	
Charlotteburg.....	Maximum... 41	55	60	55	34	40	40	51	51	38	34	35	32	32	40	52	45	42	32	36	41	38	29	32	31	32	33	26	29	34	39.2	
	Minimum... 13	14	37	33	23	29	26	35	28	22	25	18	14	5	11	32	29	22	15	9	11	29	24	16	0	11	24	1	10	23	20.2	
Chatsworth.....	Maximum... 42	57	65	55	51	51	47	60	59	42	38	36	37	39	42	49	45	51	45	38	43	46	45	39	39	32	38	39	32	45	45.2	
	Minimum... 12	12	20	36	31	40	26	38	31	22	28	16	15	12	14	29	22	27	14	14	16	23	22	11	23	28	22	15	6	18	21.4	
Clayton.....	Maximum... 37	52	53	48	45	50	42	58	45	39	36	39	34	34	41	58	39	50	44	32	40	42	41	35	36	34	37	33	33	43	41.6	
	Minimum... 15	20	28	38	29	29	35	38	31	24	30	24	20	16	20	37	26	33	25	16	20	25	30	23	16	25	27	24	18	11	23	25.0
Elizabeth.....	Maximum... 42	54	60	50	37	45	44	53	53	43	41	41	43	37	39	55	42	48	37	38	43	44	37	35	33	29	36	38	29	36	34	41.8
	Minimum... 15	20	25	35	30	34	29	37	31	21	26	19	17	15	30	34	25	24	19	12	17	24	27	20	11	18	21	18	13	14	21	22.6
Flemington.....	Maximum... 43	57	62	55	40	43	45	53	53	40	39	41	37	36	36	54	42	46	38	38	45	43	39	35	34	30	38	36	32	36	36	42.1
	Minimum... 16	20	25	39	29	32	34	38	32	22	28	20	19	15	16	32	26	22	21	16	18	23	27	19	8	17	28	23	18	8	21	25.0
Freehold.....	Maximum... 45	54	59	51	47	46	52	54	51	42	37	38	34	37	40	57	39	48	37	37	40	42	42	32	36	31	36	35	28	33	38	41.9
	Minimum... 15	24	39	34	31	34	31	37	31	22	25	18	18	13	20	34	25	26	20	11	20	23	29	20	10	21	24	22	16	12	20	23.1
Hanmonton.....	Maximum... 27	19	26	38	31	38	32	38	31	31	29	21	22	17	38	17	22	23	18	14	21	21	21	16	23	27	25	15	16	21	24.5	
	Minimum... 40	51	59	54	41	43	44	54	52	40	37	39	34	36	41	57	40	46	34	36	43	42	39	33	34	29	30	35	29	30	35	40.8
Hightstown.....	Maximum... 15	23	30	39	30	35	31	38	31	21	25	18	19	12	18	32	25	26	20	14	24	28	20	9	19	27	22	14	8	21	23.1	
Indian Mills.....	Maximum... 40	56	62	48	50	50	48	59	53	41	38	39	34	38	41	59	40	50	35	36	42	45	44	35	38	30	38	38	32	36	45	43.2
	Minimum... 8	11	22	36	32	40	29	38	31	21	29	18	15	10	14	35	19	25	19	14	15	18	27	21	9	24	29	23	14	5	19	21.6
Jersey City*.....	Maximum... 38	50	56	46	37	41	40	51	40	35	35	37	33	34	50	53	34	45	32	30	41	37	37	30	29	24	32	32	25	32	39.7	
	Minimum... 20	29	38	32	31	37	37	39	30	26	29	26	22	28	33	28	22	20	15	24	31	26	21	15	24	25	23	20	15	26	26.4	
Lakewood.....	Maximum... 39	53	61	49	49	49	45	56	53	39	38	37	35	36	40	57	41	47	35	34	41	39	43	33	32	29	31	35	29	30	39	41.2
	Minimum... 18	22	28	36	32	33	29	39	32	23	28	21	18	16	16	35	25	25	21	14	17	19	25	22	15	23	23	20	15	14	21	23.4
Lambertville.....	Maximum... 38	52	58	48	36	44	44	53	46	42	40	40	35	37	56	37	47	37	37	48	46	36	36	36	30	38	36	31	34	39	41	41.1
	Minimum... 14	19	26	32	31	33	29	38	28	22	29	18	15	13	15	33	26	29	23	17	18	19	30	21	10	20	28	23	12	9	24	22.7
Layton.....	Maximum... 40	49	59	51	34	40	41	52	43	37	35	35	34	33	37	52	40	39	32	35	41	41	35	30	34	30	35	32	32	30	38.4	
	Minimum... 4	9	20	31	20	25	25	32	28	15	14	4	7	2	7	28	22	23	10	2	10	30	25	14	4	9	21	18	15	8	21	16.0
Little Falls.....	Maximum... 40	54	61	43	43	53	48	53	39	39	39	39	36	36	56	49	46	47	35	42	42	43	34	43	34	34	32	37	35	37	41.3	
	Minimum... 16	20	27	28	27	32	29	33	25	23	19	18	12	17	28	26	30	17	12	20	29	27	20	7	17	23	22	18	15	24	22.3	
Long Branch*.....	Maximum... 42	52	63	52	49	44	44	56	40	39	38	39	36	36	40	58	37	48	36	34	43	39	44	32	32	32	34	34	27	30	37	40.9
	Minimum... 19	24	33	34	33	33	32	39	30	24	28	22	18	21	33	27	26	23	17	22	27	29	22	15	25	26	24	16	13	24	25.2	
Loug Valley.....	Maximum... 37	51	58	44	40	38	44	48	38	37	36	38	34	33	52	47	39	45	34	35	42	42	34	32	34	29	34	37	24	32	30	38.8
	Minimum... 12	17	24	38	27	33	31	36	30	23	24	14	13	10	11	32	23	21	18	14	14	19	22	17	5	18	20	14	16	6	22	20.1
Millville.....	Maximum... 39	53	54	49	51	48	47	60	51	38	37	41	34	39	56	58	40	52	37	35	42	46	47	35	38	32	38	36	37	47	43.7	
	Minimum... 12	17	24	37	33	30	27	39	28	21	24	23	19	15	17	33	22	27	23	13	19	24	31	19	14	21	27	28	14	11	20	23.0
Moorestown*.....	Maximum... 39	53	60	49	44	44	45	55	38	39	37	39	34	36	54	58	38	49	35	30	41	43	41	34	38	31	37	35	27	28	41	41.0
	Minimum... 17	25	32	33	32	39	35	40	30																							

1.05
NJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION

A. E. WHITE

TRENTON, N. J.

VOL. LII. ANNUAL SUMMARY, 1947 No. 13

GENERAL SUMMARY

Temperature for the year, 1947 averaged just 0.5° warmer than normal. The annual range was from -4° at Layton on December 25th to 100° at Paterson on August 13th. There were no extended periods of unusual cold or heat though high humidity in August and September added to discomfort from heat. January and October were unusually warm. February and March were quite cold while the remaining months were not far from normal. May and November were wet. February and October were the driest months. The average annual precipitation for the State was slightly above normal, with annual amounts ranging from 31.07 inches at Cape May to 59.58 inches at Essex Fells in Essex County. Average annual snowfall was the greatest since 1916, most of which fell in February and December. Several stations recorded annual totals of 60 inches or more, the greatest being 69.8 inches at Ridgefield. The year was unusually free from destructive storms and without floods of importance.

WEATHER BY MONTHS

JANUARY: This was the warmest January since 1937 and the fourth successive month warmer than normal. There were readings of 70° on the 30th and only two stations, Layton and Newton, had zero during the month. Precipitation averaged slightly above normal. Snowfall was light.

FEBRUARY: Month averaged coldest of any February since 1936 but no reading lower than -1° was reported. A severe cold wave on the 4-5th caused a drop of near 50° in 15 hours. It was below freezing every day except in the extreme south. Precipitation which was mostly snow averaged 57 percent of normal and was the least for the month since 1917. The heaviest snowstorm since January 1935 occurred on the 20th-21st.

MARCH: Temperature averaged about the same as for January of this year and 3° colder than normal. There was no warm period of importance. The lowest temperature was zero at Layton on the 1st. Precipitation was 71 percent of normal. The amount of snowfall was near normal and occurred mostly during the first three days. It was the windiest March for ten years.

APRIL: The first half of April was warmer and the latter half colder than normal. There was no extended warm period but temperature reached 80° on two days. Rains were frequent and total fall for the State was 20 percent above normal. Much farm work was accomplished but vegetation was retarded due to cold of two previous months.

MAY: Month was slightly cooler than normal. Frosts were common from 8th to 11th, killing in places and causing heavy damage to strawberry crop. It was the wettest May in New Jersey since 1894. Rains were frequent and some heavy, which interfered with corn planting and other farm work. Several stations reported traces of snow on the 8th.

JUNE: This was the coolest June since 1938, but during warm period from 10th-12th, temperature reached 90°. There was no frost except in bog lands. Precipitation averaged 97 percent of normal but was much greater in some localities. Crop growth was satisfactory. Hail did some damage in Mercer and Somerset Counties on the 20th. A boy was killed by lightning near Bound Brook on the 28th.

JULY: Temperature averaged normal with several hot days and a cool period from 19th to 25th. Rainfall was 92 percent of normal but varied greatly ranging from 1.29 inches at Cape May to 9.19 inches at Phillipsburg. It was generally sufficient for crops except at a few localities in South Jersey.

AUGUST: Warmest August since 1939. There were heat waves from 12th to 16th and 24th to 26th. High humidity during the month added to the discomfort. Rainfall varied greatly with the State average 81 percent of normal. Soil moisture was generally adequate. There were many thunderstorms but little damage by wind or hail.

SEPTEMBER: First half of the month was very warm but latter half was much colder than normal. The week ending the 15th was one of three warmest of summer. Heavy frosts were rather general during last week and killing in some localities. Rainfall averaged 71 percent of normal and was adequate for seasonal needs.

OCTOBER: The month averaged the warmest of any October of record in New Jersey though the monthly maxima of October 1941 were not equaled. On the 21st and 23d, heat records were broken for so late in

the season. Killing frosts were reported, however, on the 1st, 24th, and 25th. Dry weather prevailed until the 28th, but good rains fell during the last four days which brought the monthly average up to 57 percent of normal. Sunshine percentage was unusually high and the month very favorable for harvesting crops.

NOVEMBER: This was the coldest November since 1939. The various stations averaged 13 days with freezing temperature and there were 23 such days at Layton. It was the wettest November since 1932 with the average precipitation for the State about twice the normal amount. Two stations recorded more than 11 inches. No measurable snowfall was reported.

DECEMBER: Like November, December was somewhat colder than normal. Coldest mornings were the 25th and 30th with five stations recording zero or lower. Precipitation was 81 percent of normal. The outstanding feature was the heavy snowfall which began ending early on the 27th, which left depths ranging from six inches in the south to more than 29 inches at some northeastern stations. At some stations, the snowfall was the greatest ever recorded from any single storm including the blizzard of 1888, but drifting was not so severe.

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	50.4	100	-2	37.87	.....	.....	.....	.....	.....
1886.....	50.8	98	-10	46.54	.....	.....	.....	.....	.....
1887.....	51.3	102	-6	47.66	.....	.....	.....	.....	.....
1888.....	50.2	99	-12	52.20	.....	.....	.....	.....	.....
1889.....	52.8	95	-3	63.33	.....	.....	.....	.....	.....
1890.....	53.1	101	0	49.34	.....	.....	.....	.....	.....
1891.....	53.2	102	1	47.98	.....	.....	.....	.....	.....
1892.....	51.5	105	-6	42.04	.....	.....	.....	.....	.....
1893.....	50.7	103	-21	47.90	.....	.....	.....	.....	.....
1894.....	53.0	106	-11	47.37	.....	.....	.....	.....	.....
1895.....	51.5	109	-12	37.29	25.7	.....	.....	.....	.....
1896.....	52.1	105	-15	42.51	39.5	.....	.....	.....	.....
1897.....	52.0	102	-6	51.72	25.8	.....	.....	.....	.....
1898.....	53.1	107	-15	52.35	34.3	.....	.....	.....	.....
1899.....	52.1	103	-21	45.84	44.3	107	148	120	97
1900.....	53.8	104	-9	42.71	23.3	108	146	127	92
1901.....	51.3	107	-12	51.80	14.1	116	141	116	108
1902.....	51.9	100	-11	59.44	40.1	124	148	116	101
1903.....	51.7	100	-16	56.25	22.3	116	151	108	106
1904.....	49.2	100	-34	43.78	48.5	113	160	107	99
1905.....	51.2	102	-18	42.06	32.9	100	160	114	91
1906.....	52.7	98	-15	46.38	23.4	121	146	112	107
1907.....	50.3	96	-22	51.65	54.1	128	141	99	125
1908.....	52.6	106	-17	42.58	35.3	103	145	115	106
1909.....	51.9	100	-15	40.86	29.9	114	137	116	112
1910.....	51.8	99	-15	39.73	33.3	114	123	123	119
1911.....	52.6	104	-12	50.36	30.0	129	121	121	123
1912.....	51.3	100	-32	46.61	35.1	115	137	124	105
1913.....	54.0	100	-11	46.99	5.2	111	173	97	96
1914.....	51.2	99	-12	39.23	41.1	107	149	108	108
1915.....	52.4	98	3	47.37	39.4	114	145	115	105
1916.....	51.0	100	-18	38.17	48.6	121	159	100	107
1917.....	51.0	104	-21	40.80	40.4	117	166	96	103
1918.....	51.6	108	-23	37.65	25.3	108	167	96	102
1919.....	52.6	103	-11	52.10	10.9	131	161	80	124
1920.....	51.2	98	-17	51.87	33.4	127	158	94	114
1921.....	54.2	100	-5	38.16	23.0	115	167	90	108
1922.....	52.6	98	-11	41.57	30.8	119	169	90	106
1923.....	51.9	106	-14	40.38	39.8	112	172	92	101
1924.....	50.6	102	-6	44.17	24.3	102	177	96	93
1925.....	52.2	103	-20	42.15	26.8	111	165	97	103
1926.....	50.0	105	-11	44.41	32.2	122	157	95	113
1927.....	52.0	99	-12	49.68	13.7	125	156	90	119
1928.....	52.0	99	-15	46.22	21.5	125	158	97	111
1929.....	52.3	102	-9	42.96	16.0	118	162	87	116
1930.....	52.7	105	-14	35.28	15.6	99	172	89	104
1931.....	54.4	102	-9	37.07	8.6	106	169	82	114
1932.....	53.4	100	-10	46.80	16.3	111	169	95	112
1933.....	52.9	105	-18	49.80	21.5	121	158	88	119
1934.....	51.6	103	-26	45.43	32.7	117	169	85	111
1935.....	51.6	101	-31	42.32	36.2	118	155	89	121
1936.....	52.3	110	-17	47.57	22.1	119	163	87	116
1937.....	53.0	103	0	47.61	11.1	124	161	84	120
1938.....	53.8	100	-19	52.52	23.1	133	151	88	126
1939.....	53.0	99	-10	42.95	18.4	113	152	92	121
1940.....	50.1	104	-13	48.43	28.1	121	144	92	130
1941.....	53.6	105	-7	37.23	32.6	93	192	82	91
1942.....	52.6	105	-23	50.52	16.8	108	158	90	117
1943.....	52.0	102	-25	39.02	17.7	102	145	102	118
1944.....	52.5	104	-14	46.78	27.7	104	152	98	116
1945.....	52.6	100	-11	52.39	37.6	133	145	87	133
1946.....	53.9	99	-9	39.54	10.7	106	159	87	119
1947.....	52.5	100	-4	45.83	46.6	112	152	103	110
Period.....	52.0	110	-34	45.58	28.4	116	155	100	110

Climatological Data for the Year 1947

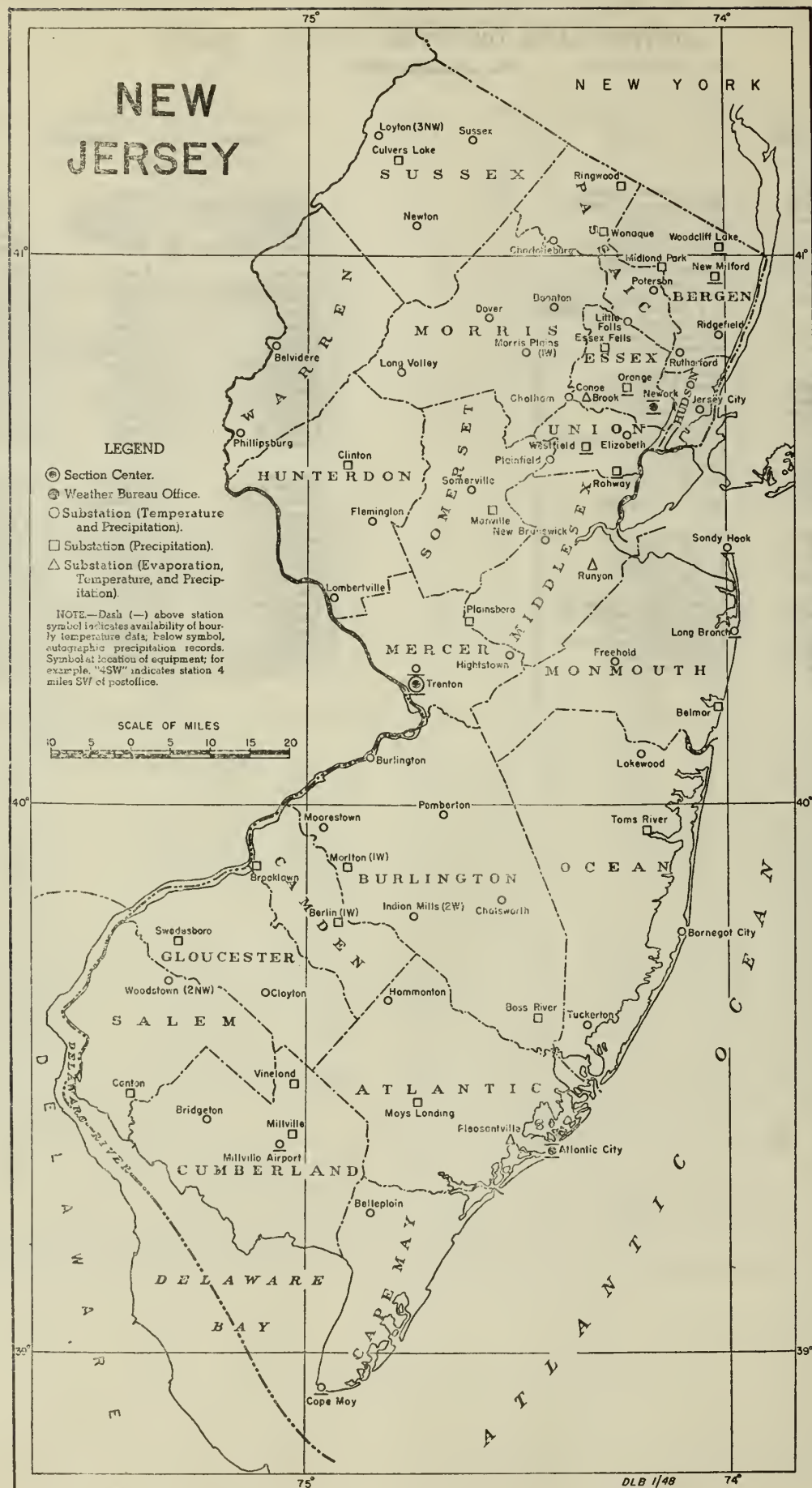
Stations	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)						Number days with .01 or more	Sky			Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snowfall (unmelted)	Number clear days	Number partly cloudy days	Number cloudy days	
Atlantic City.....	Atlantic.....	8	74	53.7	90	June 12	7	Feb. 5	74	33.70	4.30	Jau.	1.71	Feb.*	21.8	113	111	102	s.
Belleplain.....	Cape May.....	49	53	53.9	95	Aug. 14†	6	Feb. 5†	53	47.14	7.03	Aug.	0.91	Oct.	.....	115	168	92	s.
Belmar.....	Monmouth.....	19	.....	.....	.....	.....	.....	.....	6	45.76	11.24	Nov.	1.61	Aug.	.....	115	.....	105	sw.
Belvidere.....	Warren.....	289	55	52.1	95	June 11†	2	Feb. 5	55	48.82	7.59	May	2.32	Oct.	51.0	115	184	69	nw.
Berlin, 1 mile W.....	Camden.....	70	.....	.....	.....	.....	.....	.....	6	45.46	9.86	May	1.25	Oct.	.....	94	.....	.....	nw.
Boonton.....	Morris.....	280	39	49.7	95	Aug. 13	5	Feb. 5	57	47.45	9.14	Nov.	1.08	Feb.	.....	114	.....	.....	nw.
Bridgeton.....	Cumberland.....	30	59	54.8	96	Aug. 15†	6	Feb. 5	64	36.94	7.82	May	1.10	Oct.	33.3	105	.....	.....	nw.
Brooklawn.....	Camden.....	30	.....	.....	.....	.....	.....	.....	6	38.23	9.43	May	1.55	Dec.	.....	75	.....	.....	.....
Burlington.....	Burlington.....	12	35	55.2	97	Aug. 23	5	Feb. 5	61	45.24	8.40	May	1.95	Feb.	.....	96	.....	.....	w.
Canoe Brook.....	Essex.....	180	17	50.4	96	Aug. 13†	1	Mar. 1	17	57.08	11.24	Nov.	2.01	Oct.	.....	126	186	66	113
Cape May.....	Cape May.....	17	22	55.2	94	Aug. 15	8	Feb. 5	59	31.07	5.19	May	0.42	Aug.	.....	87	184	117	64
Charlotteburg.....	Passaic.....	760	55	49.6	93	Aug. 13†	0	Feb. 5†	55	52.78	9.34	Nov.	1.19	Sept.	59.2	121	.....	.....	w.
Chatham.....	Morris.....	185	.....	.....	.....	.....	.....	.....	43	53.88	10.09	Nov.	1.82	Feb.	.....	120	190	95	80
Chatsworth.....	Burlington.....	90	7	.....	.....	.....	2	Feb. 5	7	47.01	6.66	May	1.83	Feb.	33.0	85	.....	.....	.....
Clayton.....	Gloucester.....	120	34	54.1	97	Aug. 14†	2	Feb. 5	3	37.74	6.34	May	1.00	Oct.	34.4	124	160	127	78
Clinton.....	Hunterdon.....	300	.....	.....	.....	.....	2	Feb. 5	4	45.49	7.68	May	1.42	Feb.	43.3	128	187	44	134
Culvers Lake.....	Sussex.....	760	.....	.....	.....	.....	.....	.....	46	47.01	7.24	May	1.28	Feb.	49.0	101	.....	.....	.....
Elizabeth.....	Union.....	34	35	53.3	99	Aug. 15	2	Feb. 5	68	54.69	6.94	May	1.91	Oct.	60.4	126	.....	.....	ne.
Essex Fells.....	Essex.....	250	.....	.....	.....	.....	.....	.....	2	59.58	9.95	Nov.	2.25	Sept.	.....	97	.....	.....	nw.
Flemington, 2 mi. NE.....	Hunterdon.....	134	50	53.3	97	Aug. 13†	1	Feb. 5	61	45.68	7.45	May	1.63	Feb.	40.5	127	.....	.....	sw.
Freehold.....	Monmouth.....	194	16	53.1	95	Aug. 13†	2	Feb. 5	43	48.86	7.89	Nov.	1.57	Feb.	44.3	121	150	105	110
Hammononton.....	Atlantic.....	95	15	.....	96	Aug. 15	1	Feb. 5	41	50.09	10.19	Aug.	1.48	Oct.	.....	185	75	105	sw.
Hightstown.....	Mercer.....	100	51	52.3	95	Aug. 15	2	Feb. 5	54	41.92	7.35	May	1.81	Feb.	43.4	108	139	132	94
Indian Mills, 2 mi. W.....	Burlington.....	100	57	52.8	95	June 11†	4	Feb. 5	58	41.64	7.44	May	2.01	Oct.	32.0	113	135	146	84
Jersey City.....	Hudson.....	135	49	.....	.....	.....	6	Feb. 5	49	42.99	6.09	Nov.	2.11	Oct.	.....	113	171	72	122
Lakewood.....	Ocean.....	54	43	53.0	96	Aug. 15	3	Feb. 5	43	46.16	8.38	Nov.	1.34	Sept.	44.0	111	98	150	117
Lambertville.....	Hunterdon.....	75	60	52.2	94	Aug. 16	4	Feb. 5	60	46.21	7.17	May	2.05	Oct.	38.1	127	198	90	77
Lavton-3 mi. NW.....	Sussex.....	480	46	48.9	94	Aug. 13	-4	Dec. 25	46	45.56	8.98	July	0.96	Oct.	50.3	113	134	61	170
Little Falls.....	Passaic.....	157	33	52.2	98	Aug. 13†	6	Feb. 5	44	52.57	9.47	Nov.	1.99	Feb.	58.0	123	145	136	84
Long Branch.....	Monmouth.....	34	39	52.5	93	Aug. 15	4	Feb. 5	39	49.62	9.12	Nov.	2.23	Sept.	62.8	118	138	109	118
Long Valley.....	Morris.....	660	17	49.5	94	Aug. 13†	-1	Feb. 5	17	52.26	9.19	May	1.58	Feb.	57.0	101	187	103	75
Manville.....	Somerset.....	.....	.....	.....	.....	.....	.....	.....	2	44.50	7.10	Nov.	1.38	Feb.	.....	93	.....	.....	.....
Marlton, 1 mi. W.....	Burlington.....	90	.....	.....	.....	.....	.....	.....	6	40.73	9.63	May	1.44	Oct.	32.4	111	179	91	95
Mays Landing.....	Atlantic.....	50	.....	.....	.....	.....	.....	.....	3	39.75	6.73	May	0.99	Oct.	30.5	117	.....	.....	nw.
Midland Park.....	Bergen.....	210	.....	.....	.....	.....	.....	.....	1	47.08	8.16	Nov.	1.28	Sept.	56.7	101	140	124	101
Millville Airport.....	Cumberland.....	60	1	.....	.....	.....	.....	.....	1	34.29	7.25	May	0.81	Oct.	.....	.....	.....	.....	s.
Moorestown.....	Burlington.....	62	84	52.8	94	Aug. 15	6	Feb. 5	84	41.00	9.34	May	1.80	Feb.	29.3	113	.....	.....	.....
Morris Plains, 1 mi. W.....	Morris.....	400	2	50.9	94	Aug. 13†	2	Feb. 5	6	55.73	9.92	May	1.68	Feb.	53.2	118	188	45	132
Newark.....	Essex.....	11	48	53.0	99	Aug. 15	5	Feb. 5	93	46.87	7.37	Nov.	2.18	Mar.	59.3	120	99	115	151
New Brunswick.....	Middlesex.....	99	90	52.7	94	Aug. 13†	6	Feb. 5†	93	44.78	7.16	Nov.	2.09	Sept.	49.9	116	169	62	134
New Milford.....	Bergen.....	12	.....	.....	.....	.....	.....	.....	29	44.18	6.99	Nov.	0.93	Aug.	.....	119	.....	.....	.....
Newton.....	Sussex.....	769	64	48.8	94	Aug. 13	0	Jau. 7†	64	47.87	9.24	May	1.13	Feb.	51.6	114	110	179	76
Orange.....	Essex.....	140	.....	.....	.....	.....	.....	.....	7	47.29	8.26	Nov.	1.37	Oct.	.....	113	.....	.....	.....
Paterson.....	Passaic.....	100	77	52.6	100	Aug. 13	6	Feb. 5†	76	49.11	7.29	Nov.	2.25	Feb.	53.2	119	125	129	111
Pemberton.....	Burlington.....	60	18	53.2	94	Aug. 15	4	Feb. 5	18	43.17	8.24	May	2.10	Oct.	32.1	122	170	104	91
Phillipsburg.....	Warren.....	182	56	50.0	93	Aug. 13†	0	Feb. 5	64	57.62	9.19	July	2.33	Feb.	44.3	126	160	88	117
Plainfield.....	Union.....	120	56	52.3	98	Aug. 15	3	Feb. 5	59	49.39	7.09	Nov.	2.19	Feb.	60.7	121	118	135	112
Plainsboro.....	Middlesex.....	110	.....	.....	.....	.....	.....	.....	6	47.49	8.80	Aug.	1.48	Feb.	36.9	76	.....	.....	.....
Pleasantville.....	Atlantic.....	8	24	52.9	95	Aug. 16	2	Feb. 6	49	39.81	6.22	July	1.09	Oct.	23.8	112	162	94	109
Rahway.....	Union.....	20	.....	.....	.....	.....	.....	.....	8	42.75	7.70	Nov.	1.64	Feb.	55.5	116	166	87	112
Ridgefield.....	Bergen.....	80	30	52.1	97	Aug. 15	5	Feb. 5	30	47.90	7.40	Nov.	1.26	Aug.	69.8	114	144	108	113
Ringwood.....	Passaic.....	.....	.....	.....	.....	.....	.....	.....	2	51.18	9.04	May	1.43	Aug.	65.4	126	.....	.....	.....
Rumson.....	Middlesex.....	18	23	51.3	96	July 30†	0	Dec. 25	24	46.70	7.13	Nov.	2.04	Sept.	.....	93	.....	.....	w.
Rutherford.....	Bergen.....	51	3	52.6	99	Aug. 15	6	Feb. 5	3	49.94	7.51	Nov.	1.95	Oct.	63.1	134	110	93	162
Sandy Hook.....	Monmouth.....	22	49	53.9	94	Aug. 13†	6	Feb. 5	49	41.36	7.87	Nov.	1.99	June	42.0	119	88	150	97
Somerville.....	Somerset.....	65	61	52.4	97	Aug. 13	1	Feb. 6	64	51.83	8.14	May	1.81	Feb.	41.5	119	160	73	132
Sussex.....	Sussex.....	450	49	50.6	95	Aug. 13	-1	Dec. 25	52	54.75	7.80	May	1.78	Oct.	61.0	115	126	54	185
Swedesboro.....	Gloucester.....	75	.....	.....	.....	.....	.....	.....	2	39.80	8.91	May	1.30	Feb.	.....	106	175	114	76
Toms River.....	Ocean.....	33	.....	.....	.....	.....	.....	.....	26	50.75	10.10	Nov.	2.15	Mar.	3.89	107	.....	.....	.....
Trenton.....	Mercer.....	56	75	53.6	95	Aug. 15	5	Feb. 5	75	40.36	6.86	May	1.69	Feb.	33.8	119	100	131	134
Trenton No. 2.....	Mercer.....	105	17	.....	95	June 11†	4	Feb. 5	17	49.02	7.68	Aug.	2.20	Sept.	41.6	.....	.....	.....	.....
Tuckerton.....	Ocean.....	23	49	.....	95	Aug. 15	7	Feb. 5†	54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vineland.....	Cumberland.....	110	.....	.....	.....	.....	.....	.....	67	37.97	7.29	May	1.10	Oct.	.....	93	178	110	77
Wanaque.....	Passaic.....	.....	.....	.....	.....	.....	.....	.....	2	47.96	7.70	Nov.	1.53	Oct.	60.2	110	.....	.....	.....
Westfield.....	Union.....	135	.....	.....	.....	.....	.....	.....	8	48.05	8.68	Nov.	1.77	Feb.	58.0	95	.....	.....	w.
Woodcliff Lake.....	Bergen.....	103	.....	.....	.....	.....	.....	.....	29	46.60	6.80	Nov.	1.67	Oct.	.....	124	.....	.....	.....
Woodstown.....	Salem.....	16	1	53.6	95	Aug. 16	6	Feb. 5	1	.....	.....	.....	.....	.....	.....	140	128	.....	97
New York, N. Y.....	.....	10	77	53.4	94	Aug. 15	5	Feb. 5	77	48.76	8.77	Aug.	2.32	Oct.	60.2	119	104	130	131
Philadelphia, Pa.....	.....	26	77	55.1	93	Aug. 15	6	Feb. 5	77	52.12	8.68	May	1.89	Dec.	28.5	118	115	124	126
For the State.....	.....	.....	.....	52.5	100	Aug. 13	-4	Dec. 25	.....	45.83	7.22	May	1.97	Feb.	46.6	112	152	103	110

Figures and letters following station indicate distance in miles and direction of station from the city or town. † Also on other dates. * Also other months.

STATIONS AND OBSERVERS IN NEW JERSEY

(Supplemental Data)

Stations	Counties	Observers	Stations	Counties	Observers
Atlantic City.....	Atlantic.....	U. S. Weather Bureau.	Midland Park.....	Bergen.....	Harry Mitchell
Belleplain.....	Cape May.....	Mrs. Edward C. Hoffman.	Millville, 2 mi. SW.....	Cumberland.....	Millville Airport.
Belmar.....	Monmouth.....	City Water Dept.	Millville Mfg. Co.....	Cumberland.....	L. J. Gallaher
Belvidere.....	Warren.....	Miss C. S. Hixson.	Moorestown.....	Burlington.....	Japanese Beetle Laboratory
Berlin, 1 mile W.....	Camden.....	Samuel H. McCulley.	Morris Plains, 1 mi. W.....	Morris.....	James C. Long.
Boonton.....	Morris.....	J. C. Water Works.			
Bridgeton.....	Cumberland.....	Bennett K. Matlack.			
Brooklawn.....	Camden.....	C. D. Scott.			
Burlington.....	Burlington.....	Public Service E. & G. Co.	Newark.....	Essex.....	U. S. Weather Bureau.
Cancee Brook.....	Essex.....	N. J. Dept. of Conservation	New Brunswick.....	Middlesex.....	N. J. Experiment Station.
Canton.....	Salem.....	Mrs. Gertrude Willis	New Milford.....	Bergen.....	Hackensack Water Co.
Cape May.....	Cape May.....	Richard F. Umfrid, Jr.	Newton.....	Sussex.....	Charles M. Wheeler.
Charlotteburg.....	Passaic.....	Newark Water Dept.	Orange.....	Essex.....	County Engineer.
			Paterson.....	Passaic.....	Philip J. Del Vecchio
			Pemberton.....	Burlington.....	Charles A. Doehlert.
			Phillipsburg.....	Warren.....	Town Engineer.
			Plainfield.....	Union.....	S. K. Pearson.
			Plainsboro.....	Middlesex.....	Walker-Gordon Lab.
			Pleasantville.....	Atlantic.....	N. J. Dept. of Conservation.
			Rahway.....	Union.....	Louis Fontenelli.
			Ridgefield.....	Bergen.....	George P. Kirsten.
			Ringwood.....	Passaic.....	Nor. Jersey Water Sup. Co.
			Runyon.....	Middlesex.....	N. J. Dept. of Conservation
			Rutherford.....	Bergen.....	Harold Scott.
			Sandy Hook.....	Monmouth.....	U. S. Coast Guard.
			Somerville.....	Somerset.....	William E. Haver.
			Sussex.....	Sussex.....	Marshall Hunt.
			Swedesboro.....	Gloucester.....	Hurff Canning Co.
			Swedesboro, 5 mi. NW.....	Gloucester.....	Sun Oil Co.
			Toms River.....	Ocean.....	Robt. F. Snyder.
			Trenton.....	Mercer.....	SECTION CENTER USWB.
			Trenton No. 2.....	do.....	Edward H. Ristow.
			Tuckerton.....	Ocean.....	(Vacant)
			Vineland.....	Cumberland.....	Robert Jones.
			Wanaque.....	Passaic.....	Nor. Jersey Water Sup. Co.
			Westfield.....	Union.....	Town Engineer.
			Woodcliff Lake.....	Bergen.....	Hackensack Water Co.
			Woodstown, 2 mi. N.....	Salem.....	Charles Clark.
Chatham.....	Morris.....	Edward P. Molitor.			
Chatsworth.....	Burlington.....	Alfred L. Stevenson.			
Clayton.....	Gloucester.....	Harry P. Campbell.			
Clinton.....	Hunterdon.....	L. W. Klockner.			
Culvers Lake.....	Sussex.....	L. S. Depue.			
Elizabeth.....	Union.....	Union County Park Comm			
Essex Fells.....	Essex.....	Edward Mick			
Flemington, 2 mi. NE.....	Hunterdon.....	Hiram E. Deats.			
Freehold.....	Monmouth.....	Moreau Plant Co.			
Hammononton.....	Atlantic.....	J. G. Wilson.			
Hightstown.....	Mercer.....	James R. Pickering			
Indian Mills, 2 mi. W.....	Burlington.....	Edward Entwistle.			
Jersey City.....	Hudson.....	J. C. Water Dept.			
Lakewood.....	Ocean.....	R. W. Holman.			
Lambertville.....	Hunterdon.....	George Bailey.			
Layton, 3 miles NW.....	Sussex.....	A. M. Depue.			
Little Falls.....	Passaic.....	Passaic Valley Water Co.			
Long Branch.....	Monmouth.....	Storm Warn. Display Sta.			
Long Valley.....	Morris.....	Arthur Barkman.			
Manville.....	Somerset.....	R. R. Stone (Water Co.)			
Marlton, 1 mile W.....	Burlington.....	David Griscom.			
Mays Landing.....	Atlantic.....	Elmer Earle.			



Monthly and Annual Precipitation for the Year 1947, with Departures from the Normal

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Atlantic City.....	4.30	+0.81	1.71	-1.65	2.10	-1.50	4.16	+1.17	4.10	+1.05	1.77	-1.27	1.71	-2.22	3.51	-0.98	2.57	-0.08	2.29	-0.91	3.14	+0.32	2.34	-1.60	33.70	-6.86
Belleplain.....	4.95	+1.42	*1.25	-2.09	2.15	-1.67	4.08	+0.48	6.87	+3.48	2.37	-0.82	5.17	+0.98	7.03	+2.55	3.49	-0.14	0.91	-2.45	6.19	+3.44	2.75	-0.79	47.14	+4.39
Belmar.....	4.38	.....	3.20	.....	1.99	.....	4.12	.....	3.77	.....	2.08	.....	5.49	.....	1.61	.....	1.64	.....	2.96	.....	11.24	.....	3.28	.....	45.76	.....
Belvidere.....	4.26	+0.59	2.41	-1.09	2.77	-1.05	5.47	+1.76	7.59	+3.91	4.47	+0.15	5.65	+0.77	2.90	-1.92	3.64	-0.14	2.32	-1.31	4.95	+1.57	2.39	-1.35	48.82	+1.89
Berlin.....	3.89	.....	1.65	.....	2.67	.....	3.00	.....	9.86	.....	3.09	.....	3.49	.....	7.14	.....	1.61	.....	1.25	.....	5.69	.....	2.12	.....	45.46	.....
Boonton.....	2.36	-0.97	1.08	-2.21	2.97	-0.59	4.16	+0.44	8.89	+5.10	3.26	-0.54	4.95	+0.61	2.18	-2.27	2.35	-1.77	2.73	-0.81	9.14	+5.54	3.38	+0.10	47.45	+2.63
Bridgeton.....	4.85	+1.33	1.66	-1.82	2.29	-1.77	3.92	+0.52	7.82	+4.32	3.92	+0.26	1.48	-2.85	1.43	-3.21	2.62	-0.88	1.10	-2.27	3.89	+1.07	1.96	-1.50	56.94	-6.80
Brooklawn.....	3.21	.....	1.68	.....	1.80	.....	2.69	.....	9.43	.....	3.16	.....	1.90	.....	3.75	.....	2.66	.....	1.90	.....	4.50	.....	1.55	.....	38.23	.....
Burlington.....	2.83	-0.60	1.95	-1.31	2.87	-0.92	2.92	+0.82	8.40	+4.60	2.94	-1.08	5.07	+0.57	6.25	+0.88	3.57	-0.22	2.40	-1.08	4.09	+0.92	1.95	-1.84	45.24	-0.90
Canoe Brook.....	3.73	-0.05	2.20	-0.58	3.15	-1.45	5.28	+1.39	8.17	+4.66	4.01	-0.33	5.09	+0.83	5.78	+0.52	3.03	-1.83	2.01	-1.63	11.24	+7.41	3.39	+0.33	57.08	+9.26
Canton.....	4.25	.....	.....	.....	1.96	.....	2.92	.....	5.23	.....	2.97	.....	2.45	.....	3.53	.....	2.10	.....	2.25	.....	4.74	.....	1.62	.....	.....	.....
Cape May.....	3.75	+0.35	1.24	-1.94	1.66	-2.18	3.71	+0.61	5.19	+3.31	2.55	-0.52	1.21	-2.32	4.02	-4.12	3.90	+0.81	1.36	-1.68	3.92	+1.28	2.16	-1.41	31.07	-8.81
Charlotteburg.....	3.43	-0.22	1.76	-1.88	4.13	+0.07	4.63	+0.49	8.81	+4.89	5.48	+1.12	5.24	+0.58	3.06	-1.57	1.19	-3.30	1.71	-2.53	9.34	+5.56	4.00	+0.09	52.78	+3.30
Chatham.....	3.45	-0.55	1.82	-1.71	2.86	-1.23	4.70	+0.54	8.56	+4.84	3.82	-0.36	4.22	-0.49	5.17	+0.29	2.91	-1.57	2.30	-1.50	10.09	+6.61	3.98	+0.12	53.88	+4.99
Chatsworth.....	5.00	.....	1.83	.....	2.26	.....	3.01	.....	6.66	.....	3.14	.....	6.34	.....	6.58	.....	2.05	.....	2.08	.....	5.88	.....	2.18	.....	47.01	.....
Clayton.....	1.18	+0.76	1.52	-1.86	3.07	-0.55	3.08	-0.52	6.31	+3.15	3.21	-0.51	3.08	-1.48	3.68	-1.46	1.70	-1.79	1.00	-2.30	4.69	+1.83	2.19	-1.34	37.74	-6.07
Clinton.....	3.12	.....	1.42	.....	2.80	.....	4.05	.....	7.68	.....	4.81	.....	5.21	.....	3.32	.....	2.81	.....	2.29	.....	5.32	.....	2.66	.....	45.49	.....
Culvers Lake.....	3.75	+0.64	1.28	-1.52	4.22	+0.91	5.20	+1.71	7.24	+3.83	3.26	-1.48	6.83	+2.36	1.98	-2.55	3.76	-0.42	1.77	-1.89	5.51	+2.32	2.21	-0.95	47.01	+2.96
Elizabeth.....	4.93	+1.50	2.85	-0.97	4.52	+0.45	5.11	+1.43	6.94	+3.21	4.52	+0.76	3.48	-1.47	3.12	-1.25	3.68	-0.37	1.91	-1.80	9.04	+5.80	4.69	+0.91	54.69	+8.20
Essex Fells.....	4.17	.....	2.63	.....	3.59	.....	4.57	.....	8.86	.....	5.83	.....	5.35	.....	4.86	.....	2.25	.....	3.69	.....	9.95	.....	3.73	.....	59.58	.....
Flemington.....	3.55	-0.03	1.63	-1.58	2.77	-0.99	4.33	+0.71	7.45	+3.78	4.15	-0.21	4.51	-0.58	3.23	-1.51	3.05	-0.74	2.79	-0.65	5.49	+2.28	2.73	-0.75	45.68	+0.15
Freehold.....	3.77	-0.19	1.57	-2.22	2.89	-2.10	4.17	+0.49	6.83	+3.23	3.64	-0.17	5.93	+1.24	3.89	-0.60	2.48	-1.90	4.00	+0.26	7.89	+3.96	2.30	-1.22	48.86	+0.78
Hammonton.....	4.22	+0.40	*1.75	-1.55	2.55	-1.42	3.78	-0.09	8.52	+4.67	3.59	-0.26	4.79	+0.21	10.19	+5.50	1.74	-1.82	1.48	-2.11	5.06	+1.89	2.47	-0.89	50.09	+4.53
Hightstown.....	3.47	+0.07	1.81	-1.46	2.21	-1.56	4.16	+0.34	7.35	+3.63	2.84	-1.16	1.53	-0.31	5.24	+0.60	1.94	-1.87	2.31	-1.33	6.67	+3.41	2.38	-0.91	44.92	-0.55
Indian Mills.....	4.29	+0.42	2.30	-1.07	2.85	-1.16	2.71	-0.90	7.44	+4.19	4.11	-0.11	3.98	-0.52	4.35	-1.39	1.32	-2.65	1.01	-2.48	5.19	+2.07	2.09	-1.69	41.94	-5.29
Jersey City.....	3.32	-0.22	*2.47	-1.04	2.87	-1.60	5.14	+1.32	3.78	+0.43	4.49	+0.80	2.70	-1.58	3.63	-0.81	3.55	-0.17	2.14	-1.34	6.09	+2.93	3.31	-0.13	42.99	-1.41
Lakewood.....	4.01	+0.16	2.67	-0.83	2.11	-1.85	3.16	-0.70	6.96	+3.63	3.47	-0.62	3.80	-0.67	5.24	+0.03	1.34	-2.15	2.34	-1.65	8.38	+5.28	2.68	-1.00	46.16	-0.37
Lambertville.....	3.59	+0.04	2.21	-1.02	2.32	-1.46	3.68	-0.10	7.17	+3.27	2.91	-1.17	5.88	+1.13	5.61	+0.98	2.97	-0.70	2.05	-1.40	5.18	+1.96	2.69	-0.85	46.21	+0.68
Layton.....	2.30	-0.64	1.08	-1.62	3.48	+0.12	5.19	+1.66	7.45	+4.15	2.76	-1.51	8.98	+4.55	2.29	-1.88	3.31	-0.69	0.96	-2.64	5.90	+2.75	1.86	-1.36	45.56	+2.98
Little Falls.....	2.90	-0.81	1.99	-1.40	3.47	-0.30	5.07	+0.85	8.38	+4.57	4.40	+0.23	4.49	+0.07	4.42	-0.37	2.06	-2.16	2.42	-1.74	9.47	+6.00	3.50	-0.17	52.57	+4.77
Long Branch.....	3.97	-0.15	3.30	-0.29	2.33	-1.79	4.23	+0.01	4.88	+1.64	2.34	-1.56	5.26	+0.67	2.66	-2.15	2.23	-1.56	4.01	+0.45	9.12	+5.73	5.29	+1.66	49.62	+2.66
Long Valley.....	3.89	+0.69	1.58	-1.16	3.48	-0.44	3.96	+0.31	9.19	+5.49	4.77	+0.22	5.33	-0.13	5.04	+0.01	3.29	-1.16	2.09	-1.35	6.44	+1.96	3.20	-0.04	52.26	+4.40
Manville.....	2.20	.....	1.38	.....	1.98	.....	5.20	.....	6.00	.....	4.48	.....	3.78	.....	5.14	.....	3.05	.....	2.48	.....	7.10	.....	1.71	.....	44.50	.....
Marlton.....	3.92	.....	2.12	.....	2.68	.....	2.81	.....	9.63	.....	3.06	.....	3.28	.....	3.00	.....	2.00	.....	1.44	.....	4.99	.....	1.80	.....	40.73	.....
Mays Landing.....	5.35	.....	1.47	.....	2.15	.....	4.22	.....	6.73	.....	2.33	.....	5.45	.....	2.16	.....	1.65	.....	0.99	.....	4.56	.....	2.69	.....	39.75	.....
Midland Park.....	2.85	.....	1.88	.....	3.99	.....	4.83	.....	7.08	.....	4.97	.....	4.55	.....	2.33	.....	1.28	.....	1.91	.....	8.16	.....	3.25	.....	47.08	.....
Millville Airport.....	*4.75	.....	*1.39	.....	2.22	.....	3.35	.....	7.25	.....	3.57	.....	1.99	.....	1.08	.....	2.87	.....	0.31	.....	4.12	.....	1.89	.....	34.29	.....
Moorestown.....	3.38	-0.64	1.30	-1.99	2.12	-1.56	2.95	-0.46	9.34	+5.56	4.03	+0.26	2.75	-1.79	4.17	-0.74	2.48	-1.27	2.36	-1.05	4.12	+0.88	2.00	-1.43	41.00	-3.63
Morris Plains.....	3.38	.....	1.58	.....	4.07	.....	4.79	.....	9.92	.....	6.70	.....	4.70	.....	2.53	.....	2.51	.....	2.89	.....	9.06	.....	3.60	.....	55.73	.....
Newark.....	3.32	-0.48	2.59	-0.93	2.18	-1.72	5.31	+1.59	5.38	+1.46	3.69	-0.20	2.25	-2.46	4.82	-0.10	3.98	+0.21	2.20	-1.59	7.37	+3.94	3.78	+0.01	46.87	-0.27
New Brunswick.....	2.89	-0.74	2.14	-1.27	2.83	-1.35	4.18	+0.54	6.63	+2.84	3.07	-0.73	6.01	+1.14	2.85	-2.16	2.09	-1.74	2.15	-1.41	7.16	+3.82	3.28	-0.15	44.78	-1.21
New Milford.....	2.39	-1.06	2.32	-0.62	2.71	-1.05	6.44	+2.83	5.82	+2.46	4.76	-0.83	3.25	-1.38	0.93	-3.61	2.78	-1.46	2.26	-0.95	6.99	+3.72	3.53	+0.50		

Monthly and Annual Mean Temperatures for the Year 1947, with Departures from the Normal

STATIONS.	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic City.....	41.2	+8.7	31.0	-2.6	37.6	-1.0	48.8	+1.0	57.8	-0.3	66.0	-0.6	72.8	+0.7	74.6	+2.1	69.4	+2.6	63.0	+6.1	45.9	+0.3	36.2	-0.2	53.7	+1.4
Belleplain.....	41.4	+7.9	30.6	-2.1	37.2	-4.0	52.0	+1.7	61.5	+0.4	68.8	-0.6	75.2	+1.5	73.3	+1.4	68.3	+1.8	61.5	+6.1	43.2	-1.6	33.4	-2.0	53.9	+8.9
Belvidere.....	34.1	+6.2	27.8	-0.6	35.6	-3.1	50.4	+0.5	60.2	-0.9	68.2	-1.4	74.4	+0.6	75.2	+3.8	67.3	+2.0	60.4	+5.6	40.6	-0.9	31.4	+0.4	52.1	+1.0
Boonton.....	32.5	+4.7	25.9	-2.3	34.6	-1.7	47.2	-1.1	57.0	-2.0	65.0	-2.8	71.8	-0.5	72.6	+2.2	63.8	+0.1	56.8	+4.4	39.8	-1.9	29.6	-0.7	49.7	-0.1
Bridgeton.....	39.9	+6.2	29.7	-4.3	38.2	-4.3	54.4	+2.0	63.4	-0.2	69.8	-2.4	75.3	-1.2	77.4	+2.6	69.2	+0.8	62.4	+5.4	43.8	-2.0	33.8	-2.2	54.8	+0.1
Burlington.....	39.0	+6.1	31.0	-2.3	37.8	-4.6	52.4	+0.2	61.4	+1.3	72.4	+1.0	76.2	+0.2	77.5	+3.1	71.8	+3.8	63.6	+6.4	43.2	-2.6	33.6	-1.4	55.2	+0.9
Canoe Brook.....	33.2	+5.0	26.2	-2.2	35.0	-2.2	48.8	+1.3	57.8	-1.2	66.1	-1.7	72.2	-0.2	73.4	+2.7	65.0	+3.6	58.0	+5.4	39.8	-2.0	29.6	-1.0	50.4	+0.4
Cape May.....	41.5	+6.7	32.2	-2.6	38.1	-3.7	51.4	+1.4	60.3	+2.0	69.2	+0.8	74.4	+0.9	77.0	+4.3	71.0	+2.5	64.0	+5.7	46.3	-1.0	37.2	+0.1	55.2	+1.4
Charlotteburg.....	33.2	+5.9	26.6	-0.5	33.6	-2.8	48.0	+1.1	58.0	+0.1	64.6	-1.1	70.4	0.0	72.2	+3.9	63.2	+0.7	57.2	+5.7	38.4	-2.6	29.7	-0.7	49.6	+0.8
Chatsworth.....	40.6	.....	29.0	.....	36.8	.....	52.8	.....	62.2	.....	67.8	.....	73.6	.....	76.2	.....	68.4	.....	61.5	.....	42.6	.....	33.3	.....	53.3	.....
Clayton.....	39.5	+7.6	29.0	-2.9	37.4	-4.6	53.4	+2.2	62.2	+0.2	69.3	-0.7	74.8	-0.4	76.2	+2.9	68.4	+1.2	62.4	+6.0	43.2	-1.5	33.3	-1.4	54.1	+0.7
Elizabeth.....	36.8	+5.9	29.0	-2.3	37.8	-1.8	51.5	+0.4	61.0	-0.9	68.2	-2.4	74.8	-0.6	75.6	+2.2	68.7	+1.7	61.2	+5.9	42.9	-1.1	32.2	-1.5	53.3	+0.5
Flemington, 2 mi. N.E.....	36.3	+5.9	28.9	-1.5	37.6	-3.0	51.7	+1.2	61.4	-0.2	68.4	-1.8	74.8	-0.2	76.0	+3.1	68.2	+1.3	61.0	+5.3	42.4	-1.4	32.6	-0.2	53.3	+0.7
Freehold.....	38.2	+6.3	28.2	-3.3	37.0	-2.8	51.3	+1.3	61.2	-0.8	69.7	-1.0	74.2	-0.4	74.6	+1.7	67.5	+1.3	60.8	+5.8	42.2	-2.7	32.5	-1.6	53.1	+0.3
Hammonton.....	40.8	+7.5	28.7	-5.7	37.8	-5.0	53.2	+1.9	62.1	-1.3	69.9	-1.9	76.0	+0.2	75.4	+1.3	68.2	+0.9	63.6	+7.4	.....	.....	.....	.....	.....	.....
Hightstown.....	36.8	+6.5	27.9	-2.1	36.6	-4.1	51.0	+0.7	60.2	-0.9	67.2	-2.1	73.8	-0.4	74.1	+1.9	66.6	+0.1	60.2	+5.3	41.7	-2.2	32.0	-1.2	52.8	.....
Indian Mills.....	39.2	+7.0	28.0	-4.6	35.8	-5.3	52.0	+1.4	61.0	-1.0	67.8	-2.4	73.6	-1.0	74.2	+1.6	66.8	+0.3	60.8	+5.8	41.5	-2.5	32.4	-1.9	52.8	-0.2
Jersey City.....	34.8	+2.5	27.0	-4.7	35.3	-4.8	48.1	-2.4	58.8	-3.5	66.1	-4.8	75.2	-0.7	.....	.....	67.0	-0.7	60.2	+3.8	41.8	-3.2	32.0	-2.0	53.0	.....
Lakewood.....	38.8	+6.7	28.7	-3.0	37.2	-3.3	51.6	+1.8	61.1	+0.3	68.1	-1.0	74.6	+1.0	74.3	+2.7	67.2	+1.7	60.0	+5.5	41.9	-2.1	32.3	-2.0	53.0	+0.7
Lambertville.....	36.8	+6.5	28.4	-2.3	37.0	-2.5	51.4	+1.3	61.8	-0.4	67.2	-2.5	72.8	-0.5	74.0	+1.7	65.2	-0.8	59.5	+5.1	41.4	-1.9	31.9	-1.3	52.2	+0.1
Layton, 3 mi. NW.....	31.9	+6.6	25.4	-0.1	33.6	-2.2	47.7	+0.8	57.5	-0.4	64.9	-1.4	70.3	-0.9	72.6	+3.9	62.7	+0.1	56.6	+5.7	36.4	-3.1	27.2	-1.0	48.9	+0.7
Little Falls.....	35.2	+6.0	28.9	-1.4	37.0	-2.0	49.6	+0.1	59.9	-0.7	67.6	-1.8	73.6	-0.5	74.7	+2.6	66.4	+0.9	60.0	+5.8	42.2	-1.0	31.8	-0.7	52.2	+0.6
Long Branch.....	37.8	+6.1	28.5	-2.9	37.0	-2.5	50.9	+1.5	58.4	-0.5	66.6	-1.5	73.9	+0.8	74.0	+2.3	67.4	+1.3	60.4	+5.1	43.4	-1.2	33.0	-1.4	52.5	+0.6
Long Valley.....	32.6	+5.4	24.8	-2.9	34.0	-1.8	47.9	+0.2	57.6	-2.0	64.8	-2.8	71.0	-0.5	72.4	+3.0	63.8	+0.9	56.7	+5.2	39.4	-1.7	29.4	-0.4	49.6	+0.2
Millville (Airport).....	.....	.....	.....	.....	37.0	.....	52.4	.....	61.9	.....	69.2	.....	74.8	.....	76.0	.....	68.0	.....	62.3	.....	42.9	.....	33.4	.....	52.8	.....
Moorestown.....	37.6	+6.5	28.1	-3.7	36.8	-3.2	51.5	+1.0	60.4	-1.0	67.6	-2.7	73.6	-1.2	74.4	+1.8	66.7	+0.4	60.8	+5.9	42.7	-0.5	33.3	-0.5	52.8	+0.2
Morris Plains.....	34.6	.....	27.4	.....	35.4	.....	49.1	.....	59.5	.....	65.8	.....	72.4	.....	73.8	.....	65.3	.....	57.1	.....	40.0	.....	30.5	.....	50.9	.....
Newark.....	36.5	+6.7	28.2	-1.6	37.6	-2.0	50.2	0.0	59.9	-1.5	67.8	-2.1	75.5	+0.7	75.6	+2.6	67.6	+1.1	61.0	+5.4	43.2	-0.8	32.9	-0.5	53.0	+0.7
New Brunswick.....	37.4	+6.9	28.9	-2.2	37.2	-1.9	51.4	+1.6	60.8	+0.1	67.8	-1.6	73.6	-0.5	74.5	+2.3	67.4	+1.5	60.0	+5.2	41.5	-2.3	32.1	-1.3	52.7	+0.6
Newton.....	30.9	+4.4	24.4	-2.8	32.8	-3.3	47.0	-1.0	57.0	-2.3	65.2	-2.8	71.0	-1.6	71.8	+1.4	63.6	-0.3	57.0	+4.3	38.0	-3.0	27.4	-2.8	48.8	-0.9
Paterson.....	35.6	+5.6	28.9	-1.7	37.0	-2.4	50.2	-0.4	59.5	-2.1	68.2	-1.9	73.8	-0.8	74.9	+2.6	66.8	+0.5	61.2	+6.2	42.3	-1.5	32.6	-0.7	52.6	+0.3
Pemberton.....	39.0	+5.5	28.2	-5.4	37.0	-5.1	52.4	+0.7	61.8	-1.9	68.2	-3.8	73.9	-2.1	74.4	+0.1	67.7	-0.5	61.0	+4.8	42.5	-3.9	32.9	-2.5	53.2	-1.2
Phillipsburg.....	31.0	+2.4	26.2	-2.8	33.6	-4.9	47.4	-2.1	57.6	-3.6	66.0	-3.5	70.8	-3.1	73.6	+1.9	65.8	-0.6	58.4	+4.9	39.6	-2.4	29.4	-2.2	50.0	-1.2
Plainfield.....	35.8	+5.6	28.4	-1.5	37.4	-1.9	50.4	+0.8	60.0	-0.4	67.1	-2.0	74.0	0.0	74.6	+2.7	66.6	+0.9	59.8	+5.7	42.0	-1.1	31.8	-1.2	52.3	+0.6
Pleasantville.....	40.4	+7.4	29.8	-3.6	36.0	-4.6	50.0	+0.9	59.5	-0.1	67.0	-2.0	73.4	+0.1	74.2	+2.1	68.2	+2.0	60.3	+5.2	42.7	-2.4	32.8	-2.2	52.9	+0.3
Ridgefield.....	35.6	+6.4	27.7	-2.3	36.8	-2.0	49.6	+0.7	58.8	-1.5	67.2	-1.8	74.3	+0.4	75.2	+3.2	66.8	+1.4	60.0	+6.1	41.6	-0.8	31.8	-0.1	52.1	+0.7
Runyon.....	34.6	+4.9	25.4	-5.2	35.0	-4.3	46.0	-2.4	59.5	-0.4	70.0	+1.1	74.8	+1.7	76.0	+4.3	66.4	+1.7	60.8	+7.9	39.3	-3.5	28.3	-3.1	51.3	+0.2
Rutherford.....	36.4	.....	28.3	.....	37.4	.....	51.0	.....	59.7	.....	67.4	.....	74.3	.....	75.5	.....	67.6	.....	61.2	.....	42.6	.....	32.1	.....	52.6	.....
Sandy Hook.....	37.7	+6.4	30.0	-2.1	38.3	-1.0	50.2	+1.9	59.3	+0.9	64.4	+0.6	75.4	+1.9	75.6	+3.1	69.6	+2.1	62.6	+5.9	45.4	-0.4	34.4	-0.8	53.9	+1.5
Somerville.....	35.8	+6.5	27.7	-2.3	36.6	-2.4	51.0	+1.4	60.5	-0.2	67.8	-1.5	74.1	+0.1	75.0	+2.7	67.4	+1.5	59.8	+5.6	41.4	-1.5	31.2	-1.4	52.4	+0.8
Sussex.....	31.8	+4.8	26.2	-0.8	31.6	-2.4	50.1	+1.5	59.6	-0.2	66.3	-1.4	71.8	-0.6	73.4	+3.3	64.8	+0.5	58.8	+6.0	39.8	-1.7	29.4	-0.6	50.6	+0.8
Trenton.....	38.1	+7.6	28.7	-2.0	38.0	-1.1	51.8	+2.0	60.9	-0.2	68.6	-0.9	75.1	+0.6	75.1	+2.1	67.3	+0.4	61.9	+6.3	43.4	-1.0	33.9	-0.5	53.6	+1.1
Trenton No 2.....	37.6	+5.7	28.8	-2.9	37.9	-2.4	51.8	+1.2	61.4	-1.4	69.0	-2.3	75.4	-0.1	75.4	+1.9	.....	.....	43.4	-1.4	33.6	-0.3	.....	.....	.....	.....
Tuckerton.....	40.2	+6.3	31.4	-2.0	36.8	-4.6	.....	.....	.....	.....	67.0	-2.2	74.4	+0.1	75.4	+2.7	67.8	+0.9	61.1	+4.6	44.4	-1.3	.....	.....	.....	.....
Woodstown.....	38.8	.....	29.4	.....	37.8	.....	51.4	.....	60.7	.....	69.0	.....	74.1	.....	75.2	.....	68.2	.....	62.3	.....	43.8	.....	33.0	.....	53.6	.....
New York, N. Y.....	37.1	+6.2	28.9	-2.4	37.4	-0.3	49.8	+0.4	59.0	-1.6	67.4	-1.4	74.4	+0.6	75.2	+2.1	68.4	+1.6	63.2	+6.9	44.0	-0.2	33.8	-1.2	53.4	+1.1
Philadelphia, Pa.....	39.8	+7.2	30.1	-3.8	39.0	-1.8	53.6	+1.5	62.0	-0.9	69.8	-1.6	76.0	-0.2	76.4	+1.6	69.2	+1.2	64.2	+6.4	45.0	-0.7	35.8	-0.5	55.1	+0.7
For The State.....	36.7	+5.9	28.2	-2.5	36.5	-2.9	50.5	+0.7	60.1	-0.5	67.6	-1.5	73.8	-0.1	74.7	+2.7	67.0	+1.1	60.4	+5.7	42.0	-1.9	32.0	-1.6	52.5	+0.5

* Monthly mean interpolated.

KILLING FROSTS

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
Atlantic City.....	Mar. 31	Nov. 14	Long Valley.....	May 11	Sept. 27
Belleplain.....	May 10*	Oct. 1	Millville Airport.....	May 10*	Oct. 1
Belvidere.....	May 11	Sept. 27	Moorestown.....	Apr. 23*	Oct. 24
Boonton.....	May 10*	Sept. 27	Morris Plains.....	May 11*	Sept. 27
Bridgetou.....	May 10	Oct. 1*	Newark.....	Apr. 22*	Nov. 9
Burlington.....	Apr. 4*	Nov. 11*	New Brunswick.....	May 10	Oct. 25
Canoe Brook.....	May 11	Sept. 27	Newton.....	May 11*	Sept. 27
Cape May.....	Apr. 1*	Nov. 14*	Paterson.....	May 10*	Oct. 25
Charlotteburg.....	May 11*	Sept. 27	Pemberton.....	May 11	Oct. 1
Chatsworth.....	May 11	Oct. 1			
Clayton.....	May 10	Oct. 1	Phillipsburg.....	May 11	Sept. 28
			Plainfield.....	May 10	Oct. 25
Elizabeth.....	Apr. 29*	Sept. 27*	Pleasantville.....	May 10	Oct. 1*
Flemington.....	May 11	Sept. 28	Ridgefield.....	May 10	Sept. 30
Freehold.....	May 10	Sept. 27*	Runyon.....	May 11	Sept. 27
Hammonton.....	May 10*	Oct. 1	Rutherford.....	Apr. 29	Sept. 27
Hightstown.....	May 10	Sept. 27	Sandy Hook.....	Apr. 22*	Nov. 27
Indian Mills.....	May 11	Sept. 27	Somerville.....	May 11	Sept. 27
Jersey City.....	Apr. 22*		Sussex.....	May 11	Sept. 27
Lakewood.....	May 11	Oct. 1	Trenton.....	Mar. 31	Nov. 14
Lambertville.....	May 10	Sept. 27	Trenton No 2.....	Mar. 31	Nov. 14
Layton.....	May 11	Sept. 23	Tuckerton.....		Oct. 1
Little Falls.....	May 11*	Sept. 27	Woodstown.....	May 9*	Nov. 10*
Long Branch.....	May 10	Nov. 11	For the State.....	May 11	Sept. 23

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CLIMATOLOGICAL DATA

UNIVERSITY OF ILLINOIS

24 NEW JERSEY SECTION

A. E. WHITE
TRENTON, N. J.

VOL. LIII. JANUARY 1948 No. 1

GENERAL SUMMARY

This was the coldest January since 1940 and in only six years has January averaged colder since State records were begun in 1885. There were a few southern and coastal stations where the temperature did not fall as low as zero, but the number of days with zero and lower ranged up to 13 at Newton. The coldest morning was the 19th, when readings of 20° to 22° below zero were registered at three stations. At the same time, there were 13 other stations which reported readings of -10° or lower. The 31st was also a very cold day with many stations reporting readings much below zero. This was, moreover, the third consecutive month averaging colder than normal.

The average precipitation, 4.78 inches, was 132 percent of normal. Rather heavy rains occurred on the 1-2d, and on the 12-13th, followed in each case by some snow. The remainder of the month's precipitation was mostly in the form of snow which fell on an unusually large number of days. There were only five days without precipitation somewhere in the State. The average snowfall of 16.9 inches is the greatest for January since 1925. This amount combined with the unusually heavy total for December, 18.6 inches shows these two months of the current winter to be the snowiest December-January period of record in New Jersey. At the end of the month, streams were thickly covered with ice and the ground was frozen generally from one to two feet deep except in the extreme south. Heavy glaze resulted from the rain and sleet on the 1st and 2d, in all northern counties causing much damage to communication lines and trees of all kinds. Hazardous roads and streets were common throughout the month. Strong winds were registered near the coast on the 1st, 2d, 5th, and 24th.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 42 stations, was 24.1°, which was 6.7° below normal. The highest temperature was 52° at Millville on the 9th, and the lowest, -22°, at Canoe Brook on the 19th. The highest monthly mean temperature was 30.2° at Cape May, and the lowest, 17.2° at Newton. The temperature departure from the normal for the year 1948, to date, for the State is -6.7°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 60 stations, was 4.78 inches, which was 1.15 inches above normal. The average total snowfall at 30 selected stations was 16.9 inches, which was 9.6 inches above normal. The greatest monthly precipitation was 8.14 inches, at Atlantic City, and the least, 2.72 inches at Layton. The greatest amount of precipitation in any 24 consecutive hours was 2.76 inches at Atlantic City on the 1-2d. The average for the Highlands was 3.74 inches; for the Red Sandstone Plain, 4.26 inches; for the Southern Interior, 5.20 inches; and for the Sea Coast, 6.12 inches. The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, +0.32 inch; Red Sandstone Plain, +0.62 inch; Southern Interior, +1.60 inches; Sea Coast, +2.36 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 1, 22. GLAZE: 1, 2, 9, 12, 13, 21, 24.
SLEET: 1, 2, 4, 12, 13, 17, 18, 21, 24, 25.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.56	19	29.18	2	16.0	54	ne.	24	78	67	70	58	1107
Long Branch.....	30.59	19	29.21	2	13.2	40	nw.	10	72	66*	69	52	1237
Newark.....	30.57	19	29.32	2	.....	37	nw.	10	74	62	67	.....	1258
Trenton.....	30.58	19	29.27	2	9.5	28	nw.	10	70	60*	.....	51	1225

* Noon

COMPARATIVE DATA FOR JANUARY

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	30.8	67	-0	4.08	.....	.....	.....	.....	.....
1886.....	27.3	60	-10	4.47	.....	.....	.....	.....	.....
1887.....	28.4	67	-6	3.86	.....	10	.....	.....	.....
1888.....	25.4	59	-12	4.77	.....	9	.....	.....	.....
1889.....	36.2	60	8	5.68	.....	9	.....	.....	.....
1890.....	41.3	78	12	2.29	.....	10	.....	.....	.....
1891.....	34.2	59	10	6.57	.....	10	10	11	10
1892.....	29.9	67	-6	5.13	.....	10	10	9	12
1893.....	21.6	54	-21	3.04	.....	9	10	10	11
1894.....	34.2	61	-4	2.34	.....	11	10	8	13
1895.....	28.1	64	-4	4.66	9.7	11	10	10	11
1896.....	28.6	61	-7	1.66	.....	5	12	10	9
1897.....	29.0	64	-6	2.80	11.5	9	11	8	12
1898.....	32.6	64	-10	4.20	9.7	11	9	11	11
1899.....	30.1	60	-21	4.01	6.0	11	13	8	10
1900.....	32.4	64	-5	3.85	2.6	10	11	11	9
1901.....	30.4	63	-6	2.52	5.4	9	11	11	9
1902.....	28.4	58	-5	3.28	8.6	10	12	9	10
1903.....	30.4	57	-5	3.90	6.4	10	10	10	11
1904.....	23.3	58	-34	3.09	15.6	10	13	7	11
1905.....	27.0	60	-16	4.18	21.3	9	12	9	10
1906.....	36.5	74	-5	2.85	3.1	11	11	9	11
1907.....	31.8	71	-19	3.50	10.3	14	8	9	14
1908.....	31.8	60	-6	3.74	9.9	9	12	11	8
1909.....	33.2	69	-12	3.18	7.5	12	8	9	14
1910.....	29.7	54	-15	5.04	13.3	15	8	8	15
1911.....	33.5	63	0	3.44	3.6	14	10	7	14
1912.....	22.3	58	-32	2.82	13.4	13	8	12	11
1913.....	39.5	68	10	3.58	0.8	14	11	7	13
1914.....	31.9	73	-12	3.85	2.4	9	9	8	14
1915.....	33.5	61	3	6.55	3.4	12	11	6	14
1916.....	35.1	74	-2	1.60	1.9	11	11	8	12
1917.....	31.4	58	0	3.26	5.4	13	10	8	13
1918.....	20.3	56	-16	1.14	18.9	11	12	8	11
1919.....	34.1	62	-7	3.51	1.3	8	14	7	10
1920.....	23.6	53	-10	2.60	6.6	11	11	7	13
1921.....	33.0	63	-5	2.63	2.7	9	13	8	10
1922.....	27.6	57	-11	2.62	11.1	8	15	6	10
1923.....	30.1	66	-14	5.22	16.6	12	9	7	15
1924.....	32.2	65	-6	4.48	1.4	8	15	8	8
1925.....	27.4	59	-20	4.43	22.8	10	12	6	13
1926.....	30.8	63	-9	2.61	2.4	9	11	8	12
1927.....	29.2	70	-12	2.22	7.9	11	11	7	13
1928.....	32.5	65	-15	2.26	8.3	8	15	8	8
1929.....	30.7	67	-4	3.49	1.6	10	13	7	11
1930.....	31.7	72	-14	2.92	5.9	10	10	6	15
1931.....	31.6	64	-5	2.16	1.6	5	16	7	8
1932.....	42.4	76	18	4.50	1.5	13	8	6	17
1933.....	38.5	67	2	2.39	1.2	8	13	7	11
1934.....	33.6	64	-1	2.59	0.2	8	11	8	12
1935.....	28.2	65	-26	4.00	15.8	11	13	5	13
1936.....	27.2	59	-15	6.34	9.1	13	13	7	11
1937.....	40.3	72	9	6.30	2.2	16	6	6	19
1938.....	31.0	68	-19	3.64	4.0	12	10	7	14
1939.....	30.9	65	-10	3.96	10.2	11	11	6	14
1940.....	22.4	62	-13	1.95	5.6	7	16	6	9
1941.....	29.4	58	-7	3.47	8.8	10	12	6	13
1942.....	28.9	66	-23	2.98	5.5	7	13	7	11
1943.....	30.3	63	-2	2.97	7.3	10	10	8	13
1944.....	32.5	69	-10	3.50	4.3	7	11	9	11
1945.....	24.4	60	-10	3.04	13.0	9	13	7	11
1946.....	32.7	68	-5	1.76	2.3	8	10	8	13
1947.....	36.7	76	-1	3.71	4.8	12	12	6	13
1948.....	24.1	52	-22	4.78	16.9	13	13	6	12
Period.....	30.8	78	-34	3.63	7.3	10	11	8	12

Climatological Data for January 1948

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City.....	Atlantic	8	75	29.4	-3.1	48	9	-4	31	8.14	+4.65	2.76	1-2	8.5	17	10	5	16	w.	U. S. Weather Bureau.
Belleplain.....	Cape May	49	54	27.3	-6.2	50	9	-7	19	8.02	+4.49	.....	.....	13.5	14	11	4	16	nw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth	19	7	.....	.....	.....	.....	.....	.....	4.46	.....	1.45	13	.....	14	15	7	9	w.	City Water Dept.
Belvidere.....	Warren	289	56	21.4	-6.5	43	9	-11	19	3.94	+0.27	0.93	1-2	25.2	11	15	5	11	.....	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden	70	7	.....	.....	.....	.....	.....	.....	4.51	.....	1.92	1-2	8.0	10	11	6	14	n.	Samuel H. McCulley.
Boonton.....	Morris	280	58§	20.0	-7.8	44	9	-11	19	4.06	+0.73	1.51	1-2	.....	11	12	3	16	nw.	J. C. Water Works.
Bridge-ton.....	Cumberland	30	65	26.8	-6.9	50	9	3	31	5.67	+2.15	1.91	12-13	11.8	11	16	4	11	nw.	Bennett K. Mallack.
Brooklawn.....	Camden	30	7	.....	.....	.....	.....	.....	.....	4.57	.....	1.75	12-13	9.3	10	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington	12	62§	26.4	-6.5	45	9	5	24†	6.16	+2.73	.....	.....	14.0	11	16	6	9	w.	Public Service E. & G. Co.
Canoe Brook††.....	Essex	180	18	18.3	-9.9	44	9	-22	19	4.28	+0.19	1.80	1-2	22.0	10	12	6	13	nw.	N. J. Dept. of Conservation
Cape May.....	Cape May	17	60	30.2	-4.6	48	1	2	31	7.62	+4.22	2.10	13	.....	16	13	6	12	nw.	Richard F. Umirid, Jr.
Charlotteburg††.....	Passaic	760	56	21.2	-6.1	43	9	-19	19	4.61	+0.96	1.15	1-2	28.1	16	12	2	17	w.	Newark Water Dept.
Chatham.....	Morris	185	44	.....	.....	.....	.....	.....	.....	4.12	+0.12	1.64	1-2	.....	12	15	4	12	.....	Edward P. Molitor.
Chatsworth.....	Burlington	90	8	26.0	.....	48	9†	-10	19†	5.47	.....	1.72	1-2	.....	13	9	11	11	nw.	Alfred L. Stevenson.
Clayton.....	Gloucester	120	35	26.4	-5.5	47	9	-2	19	5.59	+2.17	1.72	12-13	9.5	12	13	7	11	nw.	Harry P. Campbell.
Clinton.....	Hunterdon	300	6	.....	.....	.....	.....	.....	.....	3.94	.....	0.95	13	12.5	13	14	5	12	nw.	L. W. Klockner.
Culvers Lake††.....	Sussex	760	47	.....	.....	.....	.....	.....	.....	3.14	+0.03	0.68	2	24.0	11	.....	.....	.....	.....	L. S. Depue.
Elizabeth.....	Union	33	69	24.1	-6.8	45	9	-6	19	5.04	+1.61	1.42	12-13	17.5	14	11	6	14	ne.	Union County Park Comm
Flamington, 2 mi. NE.....	Hunterdon	134	62§	25.0	-5.4	47	9	-7	19	3.51	-0.07	1.46	1-2	13.3	14	16	4	11	nw.	Hiram E. Deats.
Freehold.....	Monmouth	194	44§	24.4	-7.5	46	9	-6	19	4.78	+0.82	1.55	12-13	17.7	16	12	6	13	nw.	Moreau Plant Co.
Hammononton.....	Atlantic	95	42§	26.0	-7.3	43	9	-5	19	4.81	+0.99	.....	.....	14.5	7	15	5	10	n.	J. G. Wilson.
Hightstown.....	Mercer	100	55	23.8	-6.5	45	9	-10	19	4.20	+0.79	1.60	12-13	12.6	12	13	6	12	nw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington	100	59	25.4	-6.8	48	9	-10	19	5.73	+1.86	1.83	12-13	9.7	14	13	8	10	nw.	Edward Entwistle.
Jersey City.....	Hudson	135	50	23.8	-8.5	44	9	-1	31	4.70	+1.16	1.37	12-13	.....	13	14	7	10	nw.	J. C. Water Dept.
Lakewood.....	Ocean	54	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(Vacant)
Lambertville.....	Hunterdon	75	61	24.8	-5.5	47	9	-7	19	4.23	+0.68	1.24	12-13	13.6	13	14	6	11	nw.	George Bailey.
Layton††, 3 miles NW.....	Sussex	480	47	18.8	-6.5	46	9	-18	15†	2.72	-0.22	.....	.....	25.9	10	13	1	17	sw.	A. M. Depue.
Little Falls.....	Passaic	157	45	23.6	-5.6	45	9	-10	19	4.27	+0.56	1.63	1-2	20.2	11	11	8	12	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth	34	40	24.8	-6.9	45	9	0	19	5.55	+1.43	1.52	13	15.0	15	13	5	13	nw.	Storm Warn. Display Sta.
Long Valley.....	Morris	660	18	20.4	-6.8	42	9	-10	19	3.15	-0.05	1.15	1	20.0	8	15	6	10	nw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington	90	7	.....	.....	.....	.....	.....	.....	5.26	.....	1.61	12-13	13.5	13	15	5	11	nw.	David Griscom.
Mays Landing.....	Atlantic	50	4	.....	.....	.....	.....	.....	.....	6.82	.....	1.85	12-13	12.5	17	14	5	12	nw.	Elmer Earle.
Millville, 2 mi. SW.....	Cumberland	60	8	26.0	.....	52	9	-7	19	6.76	.....	2.29	1	8.0	14	3	14	14	w.	Millville Airport.
Mooretown.....	Burlington	62	85	25.0	-6.1	48	9	0	31	4.65	+1.23	1.91	1-2	14.7	11	.....	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris	400	7	21.8	.....	43	9	-12	31	3.80	.....	1.49	1	19.4	12	11	6	14	.....	James C. Long.
Newark.....	Essex	11	94	24.4	-5.4	44	9	1	31	4.58	+0.78	1.66	1-2	16.4	16	11	4	16	ne.	U. S. Weather Bureau.
New Brunswick.....	Middlesex	93	94	24.4	-6.1	45	9	-4	19	4.42	+0.79	1.40	12-13	11.4	12	15	2	14	uw.	N. J. Experiment Station.
New Milford††.....	Bergen	12	30	.....	.....	.....	.....	.....	.....	3.53	+0.14	1.04	13	.....	10	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex	769	65	17.2	-9.3	43	9	-21	19	3.60	+0.28	1.11	1-2	27.8	11	8	13	10	sw.	Charles M. Wheeler.
Orange††.....	Essex	140	8	.....	.....	.....	.....	.....	.....	4.46	.....	1.73	1-2	.....	11	.....	.....	.....	.....	County Engineer.
Parsippany.....	Passaic	100	77	24.2	-5.8	44	9	-4	19†	3.40	-0.33	0.87	1	16.7	13	8	9	14	w.	Philip J. Del Vecchio.
Pemberton.....	Burlington	60	19	25.3	-3.2	47	9	-10	19	4.72	+1.28	1.85	12-13	12.9	14	14	6	11	nw.	Charles A. Doeblert.
Phillipsburg.....	Warren	182	65§	21.3	-7.3	43	9	0	24†	4.47	+0.94	0.90	24-25	23.9	12	14	7	10	.....	Town Engineer.
Plainfield.....	Union	120	60	23.9	-6.3	45	9	-4	19†	4.61	+0.77	1.31	12-13	14.7	13	11	6	14	n.	S. K. Pearson.
Plainboro.....	Middlesex	110	7	.....	.....	.....	.....	.....	.....	4.07	.....	1.50	12-13	13.5	10	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic	8	50	27.2	-5.8	46	11†	0	31	6.86	+3.50	2.27	1-2	9.2	12	11	7	13	n.	N. J. Dept. of Conservation.
Rahway.....	Union	20	9	.....	.....	.....	.....	.....	.....	4.07	.....	.....	.....	13.7	15	8	5	18	nw.	Louis Fontenelli.
Ridgefield.....	Bergen	80	31	23.4	-5.8	44	9	-4	31	4.96	+1.43	1.53	1-2	17.8	13	12	8	11	nw.	George P. Kirsten.
Ringwood.....	Passaic	.....	.....	.....	.....	.....	.....	.....	.....	3.85	.....	1.41	1-2	23.7	11	14	2	15	.....	No. Jersey Water Supply
Runnemede.....	Camden	42	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Henry D. Mosher
Runyon††.....	Middlesex	18	25	21.8	-7.9	40	9	-20	19	4.67	+1.07	1.57	1-2	13.8	8	16	6	9	nw.	N. J. Dept. of Conservation.
Rutherford.....	Bergen	51	4	24.2	.....	45	9	-3	19	4.93	.....	1.20	12-13	17.1	15	13	2	16	uw.	Harold Scott.
Sandy Hook.....	Monmouth	22	50	26.8	-4.5	42	9	4	31	4.90	+0.94	1.42	13	.....	14	15	5	11	w.	U. S. Coast Guard.
Somerville.....	Somerset	65	65	23.2	-6.1	46	9	-11	19	4.11	+0.52	1.22	12-13	13.3	12	14	2	15	nw.	William E. Haver.
Sussex.....	Sussex	450	53	19.7	-7.3	45	9	-20	19	4.15	+0.87	0.75	14	31.1	14	14	3	14	w.	Marshall Hunt.
Swedesboro.....	Gloucester	75	2	.....	.....	.....	.....	.....	.....	5.14	.....	1.80	12-13	.....	15	13	8	10	nw.	E. F. Hurff Co.
Toms River.....	Ocean	33	27	.....	.....	.....	.....	.....	.....	6.09	+2.34	1.77	12-13	12.0	13	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer	56	76	25.5	-5.0	47	9	2	31	4.56	+1.25	1.78	1-2	12.3	16	12	4	15	n.	SECTION CENTER USWB.
Trenton No. 2.....	do.	105	18	25.6	-6.3	46	9	1	31	4.84	+1.01	1.41	1	11.7	16	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean	23	55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(Vacant)
Vineland.....	Cumberland	110	68	.....	.....	.....	.....	.....	.....	4.68	+0.81	2.15	1	.....	10	14	6	11	n.	Robert Jones.
Westfield.....	Union	135	9	.....	.....	.....	.....	.....	.....	4.08	.....	1.58	1-2	14.9	10	12	8	11	w.	Town Engineer.
Woodcliff Lake††.....	Bergen	103	30	.....	.....	.....	.....	.....	.....	3.66	+0.12	0.98	13	.....	10	.....	.....	.....	.....	Hackensack Water Co.
Woodstown, 2 mi. N.....	Salem	16	12	27.6	.....	45	9	3	19†	4.67	.....	2.00	1-2	.....	15	.....	.....	.....	.....	Charles Clark.
New York, N. Y.....	.....	10	78	25.9	-5.0	45	9	0	31	4.83	+1.17	1.53	1-2	15.1	13	9	7	15	nw.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	26	78	27.3	-5.3	50	9	6	31	5.42	+2.12	2.33	1-2	10.3	15	14	4	13	n.	U. S. Weather Bureau
For the State.....	.....	.....	.....	24.1	-6.7	52	9	-22	19	4.78	+1.15	2.76	1-2	16.9	13	13	6	12	nw.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T. Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows: Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for January 1948

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ^{1†}	Coast	2.53	.27		.30	.13	.01	.01		.07	T		.31	2.21				.49	.29		.21	.62	.01	.05	.56	.04							8.14
Bass River	do.																																
Belleplain	Tuckahoe	.90	1.35			.70		.10					*	2.50	.10			.07	.30			1.15	.10	.15	.40	.20							8.02
Belmar ²	Coast	.16	.40		T.		.05	.01		.01			.40	1.45				.39	.28		.02	.80	T.	.06	.37	.06							4.46
Belvidere	Delaware	.60	.93			.13	.06	.14					.09	.78				T.	.10			.27	.24		.60								3.94
Berlin ³	Mullica	.02	1.92	T.		.30		.05			T			1.22	.10				.20			.40	.10	T.		.20							4.51
Boonton ³	Passaic		1.51	.04		.10		.15	T.	T	T.			.60	.34				.24			.25	.04	.14	.65								4.06
Bridgeton	Delaware	1.48	.40		T.	.17		.11		.05			.12	1.91					.25			.71		.20	.27								5.67
Brooklawn	do.	.26	1.52			.26	.02						T	1.75				.15				.41		.02	.06	.12							4.57
Burlington	do.	.35	1.50			.21		.20					*	3.00				.30															6.16
Canoe Brook ³	Passaic		1.80	.05	T.	.08		.12		T.	T.			.63	.41				.21			.24	T.	.21	.53								4.28
Canton ³	Delaware	.25	2.45	.03				.23						1.38	.13	.11	.09	T.	.15	.09	.05	.14		.01	*	.29							5.40
Cape May ^{2†}	Coast	2.05	.11		.37	.63	.03			.02			.27	2.10				.36	.04		.43	.58	.06	*	.57			T.					7.62
Charlotteburg	Passaic	.41	1.15		.08	.07	.07	.12		.02			.06	.80	.05				.37	.14	.26	.35	.31										4.61
Chatham ³	do.	T.	1.64	.04		.08		.14		T.	.01			.61	.45				.28			.30	.04	.17	.36								4.12
Chatsworth	Coast		1.72			.30	*	.09		.04			*	1.66	T.				.52			.76	.02	.09	.27	T.							5.47
Clayton	Delaware	1.07	.87		T.	.54	T.	.02		.02	T		.18	1.72				.31			.53	T.	.02	.29	.02			T.					5.59
Clinton	Raritan	.72	.78	.02	T.	.08	.04	.06		T.			.02	.95				.12			.37	.24		.50	.04								3.94
Culvers Lake	do.	.46	.68		T.	T.	.10	.14					.07	.60				.10			.30	.08		.26	.35								3.14
Elizabeth	Coast	.28	1.26	.12	.02	.02	.03	.24		.01			T.	1.42	T.			.36			.55	.18	T.	.35	.20								5.04
Essex Falls ³	Passaic		1.63			.12		.17						T.	1.08		T.	T.	.54			.33	.14		.54								4.55
Flemington	Raritan	.28	1.18		T.	.06	.03	.09	T.	.03			T.	.73	.03			.27			.36	.12	.04	.20	.09								3.51
Freehold	do.	.50	1.20	.06	.02	.04	*	.04		.04			.19	1.50	.05			.27			.67	.02	T.	*	.18								4.78
Hammonton	Mullica	*	.48	T.		T.							*	1.71	T.		1.00			1.12			.50	*									4.81
Hightstown	Raritan	*	1.40		T.	.06	.03	.02		T.	T.		.11	1.60	T.			.20			.51	.02	T.	*	.25								4.20
Indian Mills	Mullica	.95	1.07		T.	.24	.01	.05		.04			.10	1.83	T.			.42			.64	.02	.05	.28	.03								5.73
Jersey City ²	Coast	.80	.85		.02	T.	.06	.06		.02	T.		.12	1.25				.05	.20		T.	.43		T.	.80	.02							4.70
Lakewood	Metedeconk																																
Lambertville	Delaware	.68	1.05		.6	.08	.02	.01			T.		.01	1.24				.21			.40	.01	T.	.36	.13								4.23
Layton	do.	*	1.18	T.	T.		T.	.15						.42				.06			.31	.05		.17	.38								2.72
Little Falls ³	Passaic		1.68	.03		.07		.15						.79	.25			.35			.25	.10	.05		.45								4.27
Long Branch ^{2†}	Coast	1.47	.40		.01		.09	T.		.02			.40	1.52				.38	.33		.02	.61	.03	.01	.21	.05							5.55
Long Valley ³	Raritan		1.15			.10		.20						.30	.20				.20			.50			.50								3.15
Manville ²	do.	1.00	.10		T.		.05			T.			T.	1.24				.20	.03		T.	.28	.04	T.	.40								3.44
Marlton	Delaware	.60	1.60			.24	.01	.06		.01			.10	1.61				.22			.41	.03	.04	.30	T.								5.26
Mays Landing	Gt. Egg Harbor	1.07	1.11	.03		.22	.01	.04		.04			.05	1.85	.05			T.	.75		.20	.60	.04	.06	.50	.20							6.82
Midland Park ²	Passaic	*	1.68			.16		.16						1.08				.35			T.	.40	.18		.81								4.66
Millville (Arpt.) ^{2†}	Maurice	2.29	.29		.16	.15	T.	.06		.11	T.		.52	1.28				.30	.07		.31	.98	T.	.10	.14	T.							6.76
Moorestown ³	Delaware		1.81	.10		.22		.05		T.	T.	T.		1.09	.65			.15			.42	.02	.01	T.	.13	T.							4.65
Morris Plains	Passaic	.40	1.69		.01	.08	.05	.10					T	.94				.29			.32	.16	T.	.16	.20								3.80
Newark ¹	Coast	.99	.78		.05	.02	.16	.03		.01	T.	T.	.09	1.27				.07	.25		.02	.40	.10	T.	.46	.03							4.58
New Brunswick	Raritan	.58	1.12	.01	T.	.05	.04			T.			.05	1.40	T.			.30			.41	.03	T.	.30	.13								4.42
New Milford ^{2†}	Hackensack	.61	.43			.15							.03	1.04				.06	.20			.42	.12		.53								3.59
Newton ³	Delaware		1.11	.08		.04		.21		T.				.65	.24			.15				.21	.07	.11	T.	.73							3.60
Orange ¹	Passaic		1.73	.02		.07		.11						1.10	.08			.35			.38	.18		.16	.28								4.46
Paterson ²	do.	.87	.47		.04		.17	.02					.05	.75				.02	.27		T.	.32	.10		.30	.02							3.10
Pemberton	Delaware	.68	.86			.14	.03	.05		.02			.07	1.85	T.			.28			.58	.01	.14	.10	.01								4.72
Phillipsburg	do.	.65	.85		.18	T.	.09	T.	T.	T.	T.		.12	.74	T.			.11	.23		T.	.34	.26	T.	.75	.15							4.47
Plainfield	Raritan	1.11	.67		.02		.10	.05		T.	T.		.03	1.31				.35			.40	.12	.01	.34	.10								4.61
Plainsboro	do.	.70	.67			T.	.05			T.			.10	1.50	T.			.20			.40	.05		.20	.20								4.07
Pleasantville ³	Coast		2.27	.02		.37	T.	.03			.04			1.12	1.03			.45			.93	.15	.05	T.	.40								6.86
Rahway ^{2†}	Rahway	*	1.60		*	.05		.08					*	1.40				.21			*	.34	.13		.26								4.07
Ridgefield	Hackensack	.03	1.53		T.	.02	.10	.08		.02			.03	1.37				.30			.50	.33	T.	.25	.34								4.96
Ringwood ³	Passaic	.01	1.41	.06	T.	.04		.20						.66	.20			.24			.30	.09		.64									

Daily Temperatures for January 1948

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	43	45	40	42	42	37	37	39	48	39	37	40	41	34	25	39	45	32	26	39	43	41	27	35	28	31	31	26	38	27	25	36.2
	Minimum...	36	32	27	27	32	31	28	24	39	24	24	29	33	21	11	20	32	13	08	22	33	27	14	10	16	13	25	12	21	10	4	22.5
Belleplatt.....	Maximum...	45	46	37	38	41	36	35	37	50	38	36	39	39	33	29	42	44	38	29	43	40	40	32	30	30	30	30	30	37	23	27	36.3
	Minimum...	25	32	24	21	33	30	29	19	26	27	20	12	33	28	6	8	24	21	-7	3	31	31	19	9	11	4	15	10	13	15	-1	18.3
Belvidere.....	Maximum...	31	33	34	28	39	35	36	34	43	38	36	33	35	34	23	32	33	31	18	39	40	35	28	14	28	26	28	24	33	25	21	30.9
	Minimum...	24	25	19	10	27	28	27	16	28	20	17	10	31	14	-9	-2	18	16	-11	-6	22	21	11	-7	-9	17	5	4	4	-9	11.9	
Boonton/.....	Maximum...	36	32	34	32	35	32	34	34	44	28	35	34	35	28	19	33	37	23	19	32	41	35	20	15	26	28	27	22	32	18	22	29.7
	Minimum...	26	24	23	12	17	28	24	12	16	24	12	9	14	20	2	4	12	20	-11	-8	4	24	17	-2	2	4	8	-1	1	2	-9	10.4
Bridgeton.....	Maximum...	40	44	36	39	38	35	34	35	50	41	35	36	37	34	25	38	38	32	23	37	39	39	30	18	25	29	31	29	34	29	24	34.0
	Minimum...	30	32	27	22	32	30	28	20	25	28	22	18	32	22	10	12	28	18	6	9	31	30	18	9	9	7	18	10	10	11	3	19.6
Burlington.....	Maximum...	40	40	38	37	38	35	35	36	45	32	36	37	37	34	28	37	40	30	33	34	43	34	25	20	24	27	27	24	33	30	27	33.4
	Minimum...	28	28	26	24	27	29	27	28	28	24	25	24	32	24	8	14	24	20	10	18	11	25	18	5	12	12	22	15	5	5	5	19.5
Canoe Brook /.....	Maximum...	34	33	36	33	41	33	34	33	44	29	34	37	34	29	22	35	37	27	23	34	40	39	23	16	30	28	28	22	31	14	23	30.8
	Minimum...	28	27	11	4	13	23	22	8	19	26	9	2	13	12	-5	-3	10	10	-22	-12	-3	18	14	-11	8	-16	-4	-3	-3	-3	-4	19.5
Cape May.....	Maximum...	48	47	37	39	41	39	35	38	46	37	35	40	42	35	30	43	46	37	27	37	41	41	34	34	35	29	30	30	30	30	30	36.9
	Minimum...	40	34	31	24	31	25	26	29	34	31	26	20	34	29	13	14	33	23	10	12	33	32	21	11	22	19	26	10	23	9	2	23.5
Charlotteburg.....	Maximum...	34	30	30	31	36	33	31	32	43	40	33	32	36	34	25	32	37	32	20	33	39	37	37	17	26	27	25	32	28	22	31	31.2
	Minimum...	20	22	20	8	26	25	22	14	25	16	13	-1	29	15	-3	-1	14	15	-19	7	21	22	13	-4	4	7	13	6	11	-3	-5	11.3
Chatsworth.....	Maximum...	38	43	33	38	40	37	38	38	48	48	36	39	38	38	48	41	42	41	30	39	39	36	22	27	30	31	31	38	32	25	36.1	
	Minimum...	32	30	24	17	32	28	33	18	28	25	18	9	32	24	5	5	24	19	-10	-5	30	23	17	6	12	-10	18	8	1	10	-6	16.0
Clayton.....	Maximum...	37	43	36	37	38	35	34	36	47	43	34	37	37	34	25	38	39	34	24	40	40	30	30	19	25	28	30	27	32	23	33.7	
	Minimum...	33	31	26	21	32	30	28	21	30	25	22	18	33	24	8	11	28	20	-2	5	30	28	18	8	10	5	20	10	9	11	2	19.2
Elizabeth.....	Maximum...	35	34	39	33	38	36	37	36	45	41	38	35	34	28	36	38	35	24	35	40	38	32	19	29	32	31	26	33	29	24	33.7	
	Minimum...	29	30	19	13	15	29	24	13	28	19	11	11	32	24	3	7	22	20	-6	-1	24	25	17	4	9	-1	18	2	7	5	-2	14.5
Flemington.....	Maximum...	36	38	37	32	40	36	37	38	47	42	42	37	37	35	26	38	39	34	25	37	39	41	31	22	32	34	32	36	28	25	34.8	
	Minimum...	30	30	25	18	30	29	25	16	26	23	19	10	32	21	0	7	20	17	-7	-2	23	22	17	1	12	1	19	5	-1	5	-4	15.1
Freehold.....	Maximum...	35	38	35	38	36	34	33	32	46	40	37	38	35	33	21	41	39	35	28	39	39	37	30	16	29	31	30	25	34	23	33.1	
	Minimum...	31	29	20	14	25	27	25	18	28	18	17	16	32	20	-1	7	24	17	-6	5	28	24	15	4	14	2	19	7	7	6	-5	15.7
Hammononton.....	Maximum...	39	36	37	35	40	36	38	40	43	40	41	38	37	36	26	41	38	32	22	38	41	41	31	24	31	34	29	22	29	28	26	34.5
	Minimum...	27	29	26	25	21	31	26	20	27	26	16	31	32	26	6	10	31	16	-5	0	33	26	18	7	1	16	8	1	6	-3	4	17.4
Hightstown.....	Maximum...	35	35	35	33	37	34	34	34	45	41	35	37	34	33	22	36	38	35	24	36	39	36	31	18	25	27	28	26	30	26	33	32.3
	Minimum...	29	29	20	14	31	29	26	18	28	22	16	14	32	20	1	4	20	17	-10	0	25	26	17	4	10	3	20	6	4	7	-7	15.3
Indian Mills.....	Maximum...	37	41	37	38	38	35	35	38	48	43	36	38	37	33	23	38	40	36	26	39	38	39	31	13	26	29	31	28	35	26	25	34.3
	Minimum...	32	30	25	15	32	28	28	19	29	25	19	10	32	22	2	4	25	18	-10	-2	30	23	18	7	10	-2	19	10	7	10	-4	16.5
Jersey City*.....	Maximum...	29	32	32	33	35	32	33	33	44	32	34	35	34	33	17	33	37	28	14	32	36	35	21	14	26	26	28	19	31	22	19	29.3
	Minimum...	20	22	23	22	30	28	26	23	30	16	19	25	30	17	8	16	28	10	5	10	31	20	5	4	12	12	17	11	14	5	-1	18.3
Lakewood.....	Maximum...	36	34	37	33	40	35	35	36	47	41	37	39	35	34	29	37	39	32	23	38	40	38	28	15	26	30	29	26	34	26	33.4	
	Minimum...	31	31	26	13	31	29	29	17	28	23	22	12	32	18	3	6	21	20	-7	1	23	24	16	14	-1	21	8	4	8	-4	16.2	
Layton.....	Maximum...	30	32	30	28	35	32	33	33	46	40	33	32	33	34	24	30	32	30	30	40	35	34	15	28	30	26	27	35	30	25	31.1	
	Minimum...	22	20	22	5	22	26	22	10	26	17	14	-1	30	2	-18	-2	15	13	-18	-10	18	18	6	-17	5	-17	9	-2	-18	-4	-18	6.5
Little Falls/.....	Maximum...	33	32	38	33	39	32	35	35	45	33	36	38	35	32	36	37	35	27	23	35	41	40	23	18	32	30	29	25	35	15	28	32.6
	Minimum...	24	28	21	11	28	30	27	15	23	23	17	9	26	20	4	7	21	21	-10	4	22	26	17	-2	8	-1	20	7	12	3	7	14.6
Long Branch*.....	Maximum...	36	38	35	40	38	35	34	35	45	35	36	38	36	33	21	38	41	28	22	34	39	36	24	22	26	28	29	22	32	23	32.3	
	Minimum...	33	30	25	17	31	27	24	18	31	19	17	16	32	20	8	10	26	10	0	8	32	22	9	7	14	7	18	9	11	7	2	24.4
Long Valley/.....	Maximum...	32	33	34	32	35	35	34	33	42	30	36	34	33	29	20	32	37	24	18	32	39	37	21	20	27	28	27	22	32	15	22	29.8
	Minimum...	29	27	23	8	21	26	23	8	11	23	16	4	20	18	-2	-2	14	10	-10	-6	20	22	15	-2	12	-5	14	2	6	-2	11.1	
Millville.....	Maximum...	44	44	37	39	39	36	36	36	52	47	35	38	38	34	24	40	40	36	29	40	38	39	30	22	25	25	30	29	35	29	25	35.3
	Minimum...	30	31	23	20	29	27	20	30	23	14	14	32	19	8	13	26	7	7	3	30	25	11	9	9	2	14	10	7	8	2	16.6	
Moorestown*.....	Maximum...	37	39	35	35	37	34	33	34	48	40	34	38	36	33	21	37	37	30	28	38	38	36	22	17	23	27	30	23	33	26	22	32.3
	Minimum...	32	30	24	21	30	29	27	22	29	22	20	19	32	16	5	7	25	9	1	6	30	22	10	7	14	8	22	12	14	6	0	17.8
Morris Plains.....	Maximum...	33	31	32	30																												

CLIMATOLOGICAL DATA

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NEW JERSEY SECTION

A. E. WHITE

TRENTON, N. J.

Vol. LIII.

FEBRUARY 1948

No. 2

GENERAL SUMMARY

The unusually cold weather of January this year continued until about the 12th of February when a change to milder occurred. A shorter and less severe cold period extended from the 21st to 24th. The weather was mild from the 12th to 20th. The month averaged a degree colder than normal. It was the fourth consecutive month colder than normal and the winter season, December to February, averaged the coldest of any winter in New Jersey since the winter of 1935-36.

Moderate to heavy snowfall occurred on the 4th and 22d. There were several periods of light snowfall and light to moderate rainfall. Monthly precipitation was 71 percent of normal. The average snowfall for February, 12.1 inches, added to that of January and December preceding makes a total of 47.6 inches, which marks the winter as one of the snowiest of record in New Jersey. At several northern stations the winter's snowfall has exceeded 60 inches. Sleet and glaze as well as heavy fog occurred on quite a number of days. There were no destructive storms and at only one Weather Bureau station, Atlantic City, did the wind reach gale force.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 41 stations, was 29.6°, which was 1.1° below normal. The highest temperature was 70° at Pemberton on the 19th, and the lowest, -21°, at Layton on the 1st. The highest monthly mean temperature was 34.4° at Atlantic City, and the lowest, 23.6° at Newton. The temperature departure from the normal for the year 1948, to date, for the State is -3.9°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 61 stations, was 2.47 inches, which was 1.00 inch below normal. The average total snowfall at 30 selected stations was 12.1 inches, which was 3.3 inches below normal. The greatest monthly precipitation was 4.51 inches, at Hammononton, and the least, 1.35 inches at Manville. The greatest amount of precipitation in any 24 consecutive hours was 1.29 inches at Hammonton on the 11th. The average for the Highlands was 2.34 inches; for the Red Sandstone Plain, 2.24 inches; for the Southern Interior, 2.64 inches; and for the Sea Coast, 2.79 inches. The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, -0.54 inch; Red Sandstone Plain, -0.56 inch; Southern Interior, +0.83 inch; Sea Coast, +1.62 inches.

DATES OF MISCELLANEOUS PHENOMENA.

HEAVY FOG: 11, 12, 13, 14, 17, 26, 28, 29.

GLAZE: 11, 12, 13, 14, 26, 28.

SLEET: 7, 11, 12, 13, 22, 26, 28, 29.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.89	24	29.33	14	17.1	47	s.	14	81	70	72	57	885
Long Branch.....	30.91	24	29.29	14	12.2	38	nw.	14	72	67*	64	49	981
Newark.....	30.93	24	29.27	14	.....	36	nw.	14	73	63	65	...	1037
Trenton.....	30.91	24	29.28	14	9.4	29	nw.	29	72	61*	...	49	983

* Noon

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	23.9	54	-2	3.93	.....	.....	.....	.....
1886.....	28.9	64	-10	5.42	.....	.....	.....	.....
1887.....	33.9	69	6	5.24	.....	13	.....	.....
1888.....	30.6	60	-5	3.53	.....	8	.....	.....
1889.....	27.7	53	-3	2.49	.....	8	.....	.....
1890.....	39.9	76	14	4.17	.....	10	.....	.....
1891.....	38.0	71	1	5.11	.....	14	6	.....
1892.....	33.6	58	7	1.63	.....	7	9	13
1893.....	30.1	63	-1	5.73	.....	11	7	13
1894.....	29.7	62	-11	4.42	.....	11	9	11
1895.....	23.6	57	-12	1.28	11.6	5	13	6
1896.....	32.1	62	-12	6.77	6.7	12	9	11
1897.....	32.5	59	-6	3.61	8.0	8	8	10
1898.....	32.7	65	-15	3.48	2.0	9	12	9
1899.....	25.8	60	-17	6.06	31.3	15	10	12
1900.....	31.0	69	-6	5.30	9.6	10	9	10
1901.....	25.4	52	-6	0.94	4.9	4	15	9
1902.....	27.4	62	-7	6.24	16.5	9	12	6
1903.....	33.7	70	-16	4.87	6.7	10	12	8
1904.....	24.8	65	-16	2.45	5.6	8	13	8
1905.....	23.4	53	-18	2.53	7.3	7	14	7
1906.....	30.9	64	-12	2.58	5.4	7	14	7
1907.....	23.6	55	-22	2.67	20.8	8	14	7
1908.....	28.1	65	-17	4.79	11.9	9	10	9
1909.....	37.8	72	-2	4.96	2.3	12	6	10
1910.....	30.5	69	-11	3.08	6.2	10	10	12
1911.....	30.9	67	-12	2.78	11.2	11	8	13
1912.....	27.7	61	-14	2.49	2.8	5	11	6
1913.....	30.6	70	-5	2.49	3.5	7	16	6
1914.....	25.9	67	-12	2.85	15.1	9	12	9
1915.....	35.7	75	-7	5.37	3.5	8	11	11
1916.....	28.1	63	-18	4.21	11.4	11	10	13
1917.....	28.1	62	-19	1.95	8.3	11	10	9
1918.....	29.0	67	-23	2.08	2.6	7	12	8
1919.....	33.6	65	4	3.39	1.2	10	15	4
1920.....	27.9	54	-17	4.20	20.0	11	11	10
1921.....	34.0	71	-5	3.81	13.6	10	10	10
1922.....	33.6	73	-10	2.94	8.5	10	10	10
1923.....	26.1	56	-12	2.58	13.8	12	10	8
1924.....	28.9	62	-3	4.10	11.9	9	13	11
1925.....	37.3	72	-1	2.23	0.7	7	12	6
1926.....	29.4	57	-11	4.54	21.2	11	9	14
1927.....	36.1	66	4	3.12	5.1	11	10	8
1928.....	32.1	63	-6	4.05	4.4	10	12	7
1929.....	31.6	63	-9	4.06	9.2	8	13	7
1930.....	35.6	80	-10	2.80	4.2	9	13	7
1931.....	33.3	62	-9	2.18	3.0	8	14	5
1932.....	35.9	69	4	2.16	2.2	9	11	6
1933.....	33.5	67	-12	3.33	10.4	10	12	6
1934.....	18.6	54	-26	2.77	22.7	8	15	6
1935.....	30.1	64	-31	2.80	6.8	9	12	7
1936.....	24.4	66	-17	3.10	9.6	10	13	5
1937.....	34.0	65	4	2.30	3.8	8	11	7
1938.....	35.5	70	6	2.31	1.1	10	9	6
1939.....	36.3	74	1	5.55	2.0	11	11	6
1940.....	31.9	65	-1	3.03	12.2	11	12	6
1941.....	29.4	53	-5	2.47	8.8	6	16	5
1942.....	20.7	63	-5	2.69	1.2	6	14	6
1943.....	32.9	71	-25	2.01	3.8	8	14	6
1944.....	32.3	65	-7	2.35	7.0	9	10	7
1945.....	32.2	60	-8	3.16	7.9	11	10	7
1946.....	32.3	73	-9	2.16	6.4	9	11	6
1947.....	28.2	63	-1	1.97	18.8	5	13	8
1948.....	29.6	70	-21	2.47	12.1	10	10	8
Period.....	30.7	80	-31	3.47	8.8	9	11	7

Climatological Data for February 1948

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic	8	75	34.4	+0.8	65	18	12	9	3.36	-0.12	0.87	4-5	7.1	11	5	7	17	n.	U. S. Weather Bureau.
Belleplain.....	Cape May	49	54	33.9	+1.2	68	18	2	7	2.05	-1.29	0.95	28	.....	8	9	9	11	ne.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth	19	7	.....	.....	.....	.....	.....	.....	2.71	.....	0.75	4	.....	9	12	11	6	sw.	City Water Dept.
Belvidere.....	Warren	289	56	27.6	-0.8	54	18†	-4	7	2.83	-0.67	0.82	14	13.2	9	15	8	6	.....	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden	70	7	.....	.....	.....	.....	.....	.....	2.08	.....	0.80	28	9.2	6	13	5	11	ne.	Samuel H. McCulley.
Boonton.....	Morris	280	58§	25.2	-3.0	54	17	-3	11	2.28	-1.01	0.66	14	.....	11	15	1	13	ne.	J. C. Water Works.
Bridgeton.....	Cumberland	30	65	33.2	-0.8	66	19	5	7	3.16	-0.32	0.90	4	11.8	10	15	5	9	nw.	Bennett K. Matlack.
Brooklawn.....	Camden	30	7	.....	.....	.....	.....	.....	.....	1.95	.....	0.64	28	10.3	5	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington	12	62§	32.0	-1.3	68	19	8	10	2.75	-0.51	0.66	28	8.5	7	12	4	13	ne.	Public Service E. & G. Co.
Canoe Brook††.....	Essex	180	18	24.2	-4.2	54	18†	-13	7	2.32	-0.46	0.66	27-28	12.0	11	11	6	12	nw.	N. J. Dept. of Conservation
Cape May.....	Cape May	17	60	35.0	+0.2	62	18†	14	9†	3.15	-0.03	0.75	22	.....	12	8	14	7	n.	Richard F. Umbrid, Jr.
Charlotteburg††.....	Passaic	760	56	25.4	-1.7	53	20	-12	11	2.80	-0.84	0.61	13-14	13.3	13	9	2	18	nw.	Newark Water Dept.
Chatham.....	Morris	185	44	.....	.....	.....	.....	.....	.....	2.17	-1.36	0.68	13-14	.....	10	11	11	7	.....	Edward P. Molitor.
Chatsworth.....	Burlington	90	8	32.2	.....	66	19	-6	7	2.76	.....	0.78	27-28	14.0	6	4	16	9	w.	Alfred L. Stevenson.
Clayton.....	Gloucester	120	35	32.6	+0.7	68	19	0	7	2.90	-0.48	0.78	27-28	12.3	10	10	8	11	ne.	Harry P. Campbell.
Clinton.....	Hunterdon	300	5	.....	.....	.....	.....	.....	.....	2.22	.....	0.59	13-14	11.3	9	12	6	11	uw.	L. W. Klockner.
Culvers Lake††.....	Sussex	760	47	.....	.....	.....	.....	.....	.....	1.82	-0.98	0.60	14	10.9	8	.....	.....	.....	.....	L. S. Depue.
Elizabeth.....	Union	33	69	29.5	-1.8	55	18†	-3	1	2.78	-1.04	0.70	28	12.7	13	12	4	13	ne.	Union County Park Comm
Flemington, 2 mi. NE.....	Hunterdon	134	62§	29.2	-1.2	58	18	-5	7	2.34	-0.87	0.67	28	10.2	11	17	4	8	ne.	Hiram E. Deats.
Freehold.....	Monmouth	194	44§	30.6	-0.9	65	19	2	9	2.43	-1.36	0.71	28	11.5	10	12	3	14	ne.	Moreau Plant Co.
Hammonton.....	Atlantic	95	42§	31.4	-3.0	64	18	-2	7	4.51	+1.21	1.29	11	14.0	7	7	8	14	ne.	J. G. Wilson.
Hightstown.....	Mercer	100	55	29.3	-1.7	67	19	-4	7	2.23	-1.04	0.63	28	11.3	10	4	14	11	ne.	James R. Piekerling
Indian Mills††, 2 mi. W.....	Burlington	100	59	31.8	-0.8	69	19	-6	7	2.59	-0.78	0.70	4	11.1	11	8	12	9	n	Edward Entwistle.
Jersey City.....	Hudson	135	50	28.4	-3.3	55	18	4	1	1.92	-1.59	0.50	28	.....	8	12	5	12	ne.	J. C. Water Dept.
Lakewood.....	Ocean	54	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(Vacant)
Lambertville.....	Hunterdon	75	61	29.8	-0.9	64	19	-4	7	2.34	-0.89	0.68	27-28	9.9	9	14	8	7	ne.	George Bailey.
Layton††, 3 miles NW.....	Sussex	480	47	23.8	-1.7	54	19	-21	1	1.86	-0.84	0.70	13-14	16.1	9	14	2	13	ne.	A. M. Depue.
Little Falls.....	Passaic	157	45	27.7	-2.6	55	17†	-7	1	1.88	-1.51	0.59	13-14	13.0	12	9	12	8	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth	34	40	30.9	-0.5	59	19	6	9	2.82	-0.77	0.87	4	13.4	10	5	12	12	e.	Storm Warn. Display Sta.
Long Valley.....	Morris	660	18	25.4	-2.3	55	18	-8	7†	2.62	-0.12	0.60	22†	15.0	7	13	10	6	nw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington	90	7	.....	.....	.....	.....	.....	.....	2.57	.....	0.79	4	12.5	11	10	10	9	nw.	David Griscom.
Mays Landing.....	Atlantic	50	4	.....	.....	.....	.....	.....	.....	3.93	.....	0.92	22	9.5	12	14	0	15	nw.	Elmer Earle.
Millville, 2 mi. SW.....	Cumberland	69	8	31.9	.....	67	19	-3	7	3.03	.....	0.80	4-5	7.9	13	4	17	8	n.	Millville Airport.
Moorestown.....	Burlington	62	85	31.0	-0.8	67	19	1	7	3.14	-0.15	0.78	21-22	11.2	12	.....	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris	400	7	26.8	.....	54	18	-4	11	2.17	.....	0.80	13	8.4	9	14	1	14	.....	James C. Long.
Newark.....	Essex	11	94	29.3	-0.5	55	20	5	1	2.25	-1.27	0.70	28	13.0	9	6	7	16	ne.	U. S. Weather Bureau.
New Brunswick.....	Middlesex	99	94	30.0	-1.1	66	19	1	7†	2.43	-0.98	0.64	28	11.8	11	12	6	11	ne.	N. J. Experiment Station.
New Milford††.....	Bergen	12	30	.....	.....	.....	.....	.....	.....	1.62	-1.32	0.35	14†	.....	8	.....	.....	.....	.....	Haackensack Water Co.
Newton.....	Sussex	769	65	23.6	-3.6	55	19	-15	9	1.93	-1.26	0.61	13	12.8	9	.....	.....	.....	.....	Charles M. Wheeler.
Orange††.....	Essex	140	8	.....	.....	.....	.....	.....	.....	2.29	.....	0.76	28	.....	8	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic	100	77	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Philip J. Del Vecchio
Pemberton.....	Burlington	60	19	31.4	-2.2	70	19	-10	7	2.10	-0.55	0.51	4-5	10.2	11	13	8	8	n.	Charles A. Doehlert.
Phillipsburg.....	Warren	182	65§	26.2	-2.8	55	18	2	7†	3.11	-0.28	0.74	4	16.5	8	15	9	5	.....	Town Engineer.
Plainfield.....	Union	120	60	29.4	-0.5	57	18†	2	1	2.35	-1.23	0.62	28	12.8	12	5	12	12	n.	S. K. Pearson.
Plainsboro.....	Middlesex	110	7	.....	.....	.....	.....	.....	.....	2.54	.....	0.87	27	12.2	10	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic	8	50	32.3	-1.1	65	18	-1	7	3.22	+0.19	0.77	28	10.7	12	8	6	15	nw.	N. J. Dept. of Conservation.
Rahway.....	Union	20	9	.....	.....	.....	.....	.....	.....	1.80	.....	0.58	28	11.5	9	13	5	11	nw.	Louis Fontenelli.
Ridgefield.....	Bergen	80	31	28.4	-1.6	54	17†	3	1	2.64	-0.56	0.61	28	11.6	11	9	12	8	nw.	George P. Kirsten
Ringwood.....	Passaic	.....	0	.....	.....	.....	.....	.....	.....	1.58	.....	0.47	13-14	11.5	10	15	3	11	.....	No. Jersey Water Supply
Runnemede.....	Camden	42	0	31.9	.....	69	19	0	7	2.19	.....	0.56	27-28	10.1	11	.....	.....	.....	.....	Henry D. Mosher
Runyon††.....	Middlesex	18	25	27.3	-3.3	62	19	-12	7	2.48	-0.70	0.74	28	9.7	8	19	6	4	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen	51	4	28.7	.....	57	19	2	1	2.55	.....	0.70	28	17.2	13	3	12	14	n.	Harold Scott.
Sandy Hook.....	Monmouth	22	50	30.4	-1.7	54	20	10	9†	1.93	-1.82	0.56	28	.....	12	.....	.....	.....	.....	U. S. Coast Guard.
Somerville.....	Somerset	65	65	29.0	-1.0	60	19	-3	7	2.08	-1.35	0.57	28	12.1	11	9	8	12	ne.	William E. Haver.
Sussex.....	Sussex	450	53	24.4	-2.6	53	17	-12	11	2.50	-0.59	0.85	13-14	9.0	10	8	6	15	ne.	Marshall Hunt.
Swedesboro.....	Gloucester	75	2	.....	.....	.....	.....	.....	.....	2.39	.....	0.62	4	.....	10	12	10	7	ne.	E. F. Hurff Co.
Toms River.....	Ocean	33	27	.....	.....	.....	.....	.....	.....	2.88	-1.05	0.61	14	.....	9	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer	56	76	31.2	+0.5	68	19	7	9	2.27	-1.14	0.68	27-28	10.3	11	7	9	13	n.	SECTION CENTER USWB.
Trenton No. 2.....	do.	105	18	31.6	-0.1	68	19	6	9	2.74	-0.06	0.74	4	12.4	11	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean	23	55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(Vacant)
Vineland.....	Cumberland	110	68	.....	.....	.....	.....	.....	.....	1.72	-1.87	0.65	13-14	.....	9	13	5	11	ne.	Robert Jones.
Wesfield.....	Union	135	9	.....	.....	.....	.....	.....	.....	2.71	.....	1.18	28	13.7	11	.....	.....	.....	.....	Town Engineer.
Woodcliff Lake††.....	Bergen	103	30	.....	.....	.....	.....	.....	.....	1.75	-1.25	0.42	22	.....	8	.....	.....	.....	.....	Haackensack Water Co
Woodstown, 2 mi. N.....	Salem	16	12	33.1	.....	67	19	0	7	1.91	.....	0.59	4-5†	10.9	9	9	8	12	.....	Charles Clark.
New York, N. Y.....	.....	10	78	31.2	-0.1	56	18	7	9	2.49	-1.48	0.59	28	13.3	10	6	7	16	n.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	26	78	33.4	-0.5	68	19	10	10	3.17	-0.26	0.95	4-5	13.0	12	7	9	13	n.	U. S. Weather Bureau
For the State.....	.....	.....	.....	29.6	-1.1	70	19	-21	1	2.47	-1.00	1.29	11	12.1	10	10	8	11	ne.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows: Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for February 1948

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast	T.			.78	.09	T.	T.			T.	.57	.09	.14	.20		.03	.20			T.		.28			T.	.12	T.	.86	T.			3.36	
Pass River	do.																																	
Helleplain	Tuckahoe				.03	.04						.15	.25	.12	.45								.06						.95				2.05	
Belmar ²	Coast				.75	T.	.01	.02				.25	T.	.11	.50								.38			T.			.67				2.71	
Belvidere	Delaware				.39							.09	.06	.12	.82								.55				.20		.55				2.83	
Berlin ³	Mullica				.17	.62			T.			.20			.36									.10					.10	.70			2.28	
Boonton ³	Passaic				.18	.47		.02	.01				.15		.66								.26	.03		T.	T.	.06	.34	.11			3.16	
Bridgeton	Delaware				.68	.22	T.					.21	.07	.13	.39				.06				.47				.16		.77				1.95	
Brooklawu	do.				.41	T.						T.		.18	.58								.14			T.			.64				2.75	
Burlington	do.				.63					.40		.35	T.										.55				.16		.66	T.			2.32	
Canoe Brook ³	Passaic				.07	.37		.01	.02			.17			.60											T.	.01	.07	.51	.15			3.63	
Canton ²	Delaware					.96	.92		T.			T.	.14		.52				.03				.34										2.80	
Cape May ¹	Coast				.22	.37	.01					.06	.41	.14	.18		.35	.15					.75					.04	.62				2.17	
Charlotteburg	Passaic				.35	.10	.04		.06			.09	.30	.04	.57	.15							.37					.06	.27	.40			2.76	
Chatham ³	do.				*	.31		.01	.05				.09		.68	.05								.18		T.	T.	.08	.49	.23			2.90	
Chatsworth	Coast				*	.83									.93								.28										2.22	
Clayton	Delaware				.77	.07	T.	T.	T.			.12	.04	.10	.71			T.	T.				.24			.04	.03		.72				1.82	
Clinton	Raritan				.38	T.			.10			.12	.02	.05	.54								.36						.53	T.			2.78	
Culvers Lake	do.				.28	.05			.02			.05	T.		.60								.32				.02		.48				2.40	
Elizabeth	Coast				.38	.31	.03		.08			.08	.08	.11	.42								.47				.01	.10		.70	.01		2.34	
Essex Fells ³	Passaic				T.	.32			.07				.15		.70									T.					T.	.42	.20		2.43	
Flemington	Raritan				.38	.04	T.		.06			.06	.11	.04	.49								.38				.02	.09		.67			4.51	
Freehold	do.				*	.60		T.	.04			.09	.11	.06	.51								.24				T.	.07		.71			2.23	
Hammonton	Mullica				*	.90		T.	*		1.29	T.			.73									.50				1.09				2.59		
Hightstown	Raritan				*	.48	T.	T.	.07			*	.17	.03	.49								.30			T.	.06		.63			1.92		
Indian Mills	Mullica				.70	.10	T.	T.	.03			.15	.11	.08	.45				.02				.32			T.	.05		.58			2.34		
Jersey City ²	Coast				.45		.03	.04				.20			.39								.28						.50			1.86		
Lakewood	Metedeconk																															1.88		
Lambertville	Delaware				.55	T.	T.	T.	.05			.11	T.	.02	.40								.40			T.	.12		.68	.01		2.82		
Layton	do.				.20	.17	.02		T.			T.	.03	*	.70								.32				.08		.34			2.62		
Little Falls ³	Passaic				.08	.25		.01	.03				.03		.59								.20	.12			.02	.01	.40	.02			1.35	
Long Branch ^{2†}	Coast				.87	T.	.01	.04	T.			.23		.10	.47				.02				.34				.01	.08		.65			2.57	
Long Valley ³	Raritan				.40				.10				.20		.51									.60				.18		.60			3.93	
Manville ²	do.				.40		T.	T.				.01		.02	.05								.25				.02	.02		.58			1.56	
Marlton	Delaware				.67	.12	.02		.03			.10	.12	.06	.53				.06				.31				.06		.53				2.17	
Mays Landing	Gt. Egg Harbor				.50	.38	.01	.01	T.			.17	.32	.15	.58				.06				.92				.16		.67				3.03	
Midland Park ²	Passaic				.14	.16	T.		.02				.10	*	.10								.78							.26			3.14	
Millville (Arpt.) ^{2†}	Maurice				.77	.03	.16	T.				.22	.14	.11	.56		.02	T.					.78			.01	.19	.01	.62				2.25	
Moorestown ³	Delaware		T.		.05	.37	.01	T.	.05				.24		.60								.19	.62			T.	.07	.03	.20	.12		2.43	
Morris Plains	Passaic				.30	.10	T.		.04			.05		.19	.61								.25				T.	.07	.56	T.			1.62	
Newark ¹	Coast				.41		.02	.07	T.			.15	T.	.11	.39			T.					.34				T.	.06	.70	T.			1.93	
New Brunswick	Raritan				.40	.04	.04		.05			.06	.04	.05	.50								.57				.04		.64				2.20	
New Milford ^{2†}	Hackensack				.29		.06	.03				.17		.15	.35								.35						.22				2.43	
Newton ³	Delaware				.06	.31		.05	.06			.17	.10		.61								.39	T.				.04		.31	T.		1.62	
Orange ¹	Passaic				.28	.16	.01		.03				.19		.61								.31							.76			2.29	
Paterson ²	do.																																2.10	
Pemberton	Delaware				.42	.09	.02	T.	.04			.04	.20	.05	.48								.18					.10		.48	T.		3.11	
Phillipsburg	do.				.74		T.	T.	.06			.19	T.	.19	.61								.48				T.	.24		.60	T.		2.35	
Plainfield	Raritan				.41	.02	.02	.05	.04			.14	.01	.05	.58								.33				T.	.08		.62	T.		2.54	
Plainsboro	do.				.50	T.			.10	.07		.10	T.	.16	.20								.40				.10		.87				3.22	
Pleasantville ³	Coast	T.	T.		.55	.20	T.	T.	T.		T.		.34	*	.21	.21			.26				.27	.30				T.	.06	.05	.75	.02		1.80
Rahway ^{2†}	Rahway				.20							*	.18	*	.58								.18					*	.08	.58			2.64	
Ridgefield	Hackensack				.50	.01	.09	T.	.07			.15	.11	.30	.26								.45				.09		.61				1.58	
Ringwood ³	Passaic				.07	.20			.06				.12		.47								.35					.01	.03	.25	.02		2.19	
Rummede	Delaware				.45	.05		T.	.05			.12	.09	.07	.45								.26				.01	.08		.56	T.		2.48	
Rumyon	Coast				*	.50	.05							.12	.60				T.				.41				.06		.74				2.55	
Rutherford	Passaic				.41	.02	.03	.02	.04			.18	.04	.11	.50								.35				T.	.11	.70	.01			1.93	
Sandy Hook ^{2†}	Coast				.47		.01	.02	.01				.13	.10	.39			.01					.17				.01	.05	.56				2.08	
Somerville	Raritan				.34	.03	.02	T.	.07			.12	.05	.07	.48								.25				T.	.08		.57			2.50	
Sussex	Hudson				.25	.05	T.		T.			.15	.10	.15	.70								.40					.10		.60	.10		2.39	
Swedesboro	Delaware				.62	.10	T.		.02			.08	.10	.08	.44								.25					.10		.60			2.43	
Swedesboro No. 2	do.				.35	.41	.01		.01				.16	.02	.50								.23	.01				.11		.58			2.88	
Toms River	Coast				.60	.08						.10		.35	.61								.34					.10		.60			2.27	
Trenton ^{1†}	Delaware				.55	T.	.01	.06				.11		.04	.38			T.	T.	.10			.34				.01	.08	T.	.68	.01		2.74	
Trenton No. 2 ²	do.				.74	T.	.02	.06				.11		.05	.41				T.				.51				.01	.09		.73	.01		1.72	
Tuckerton	Coast				*								.10	.15	.65																		1.77	
Vineland	Maurice				.08	T.	T.					.05	.16	.15	.56																			

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. [†] Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

Amounts in italics are interpolated. §§ Incomplete.

Daily Temperatures for February 1948

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*	Maximum...	30	41	37	36	29	32	36	37	21	29	39	42	41	52	41	42	62	65	49	51	33	35	30	38	53	50	54	49	47	...	41.4	
	Minimum...	18	22	26	24	18	24	15	19	12	16	21	33	31	36	27	33	39	39	38	27	23	28	26	24	35	37	35	37	31	...	27.4	
Belleplain	Maximum...	32	39	38	35	35	32	35	36	33	28	40	42	40	55	41	49	62	68	66	58	31	32	33	42	53	57	56	60	47	...	44.0	
	Minimum...	12	8	22	34	15	24	2	25	10	12	12	32	27	37	26	24	45	27	28	36	20	24	23	10	32	26	25	39	33	...	23.8	
Belvidere	Maximum...	21	38	32	25	30	27	32	35	27	22	27	43	39	45	39	43	53	54	54	48	35	32	37	41	43	45	50	41	40	...	37.9	
	Minimum...	-1	4	14	10	11	17	-4	22	-3	1	3	25	18	33	17	14	37	22	30	25	17	20	11	5	29	35	30	34	30	...	17.4	
Boonton/	Maximum...	27	38	28	18	28	26	31	32	21	22	34	42	47	49	33	42	54	53	51	42	31	30	34	33	46	41	44	38	38	...	36.3	
	Minimum...	1	6	9	7	10	18	-2	5	0	4	-3	7	17	21	20	12	16	25	30	30	15	18	14	0	6	32	30	31	29	...	14.1	
Bridgeton	Maximum...	29	36	36	33	31	33	34	35	29	25	41	41	38	55	41	48	60	63	66	54	37	33	38	43	52	50	56	52	46	...	42.6	
	Minimum...	12	16	19	20	12	15	5	22	10	9	12	31	27	36	25	25	33	29	38	32	21	25	21	20	32	42	28	38	32	...	23.7	
Burlington	Maximum...	29	34	33	31	32	33	30	30	27	24	31	43	44	51	42	47	56	57	68	62	35	35	38	50	50	47	52	47	44	...	41.4	
	Minimum...	10	18	22	18	20	22	10	13	12	8	11	13	24	28	24	24	33	38	35	30	18	21	23	17	30	37	30	35	31	...	22.6	
Canoe Brook/	Maximum...	29	37	33	18	31	32	34	35	24	24	32	43	45	46	33	45	51	54	54	42	33	31	36	35	47	40	47	38	41	...	37.6	
	Minimum...	-10	-3	6	-1	12	17	-13	3	-9	-8	-12	0	29	29	13	6	18	19	26	35	11	21	7	-4	10	30	29	30	26	...	10.9	
Cape May	Maximum...	35	35	37	38	35	32	36	35	31	32	41	39	40	50	41	44	54	62	62	49	40	35	33	38	50	52	54	59	45	...	42.6	
	Minimum...	17	21	25	26	19	26	22	22	14	14	18	31	39	35	31	31	40	30	32	36	22	22	25	19	33	44	35	37	32	...	27.5	
Charlotteburg	Maximum...	28	38	37	23	29	28	33	31	24	22	31	40	38	50	35	42	53	52	50	53	31	30	33	33	48	48	42	42	35	...	37.2	
	Minimum...	-4	-4	14	1	9	15	-5	8	2	0	-12	24	12	29	15	4	36	26	27	25	12	18	4	-9	24	32	30	29	30	...	13.5	
Chatsworth	Maximum...	28	39	36	35	35	30	35	36	31	25	39	43	42	54	45	48	60	62	66	64	37	34	33	41	54	52	51	45	...	43.2		
	Minimum...	7	7	12	16	14	21	-6	24	4	7	6	31	22	35	26	20	46	24	33	36	18	24	20	8	28	38	25	36	31	...	21.1	
Clayton	Maximum...	29	36	35	33	30	32	34	37	22	24	37	42	37	55	39	49	59	62	68	57	36	31	34	37	52	48	55	44	46	...	41.4	
	Minimum...	10	14	22	19	12	20	0	22	9	7	9	31	26	36	26	25	43	31	39	30	19	25	21	23	32	40	28	38	33	...	23.8	
Elizabeth	Maximum...	27	39	34	28	31	30	32	37	26	23	31	43	48	48	42	44	53	55	58	54	33	37	33	31	47	44	49	46	44	...	39.4	
	Minimum...	-3	10	13	13	13	22	0	23	-1	7	12	29	20	32	20	17	36	25	32	29	19	22	20	10	25	31	30	33	29	...	19.6	
Flemington	Maximum...	31	43	35	30	30	32	35	36	25	24	29	44	41	46	40	45	55	58	54	54	31	32	35	40	50	48	49	43	41	...	39.9	
	Minimum...	3	8	18	8	13	20	-5	22	1	3	2	28	19	31	18	13	34	25	31	28	18	22	16	4	29	35	29	33	31	...	18.5	
Freehold	Maximum...	29	38	32	25	31	28	36	35	25	24	36	41	36	55	39	47	55	58	65	58	33	33	33	38	48	46	48	40	42	...	39.8	
	Minimum...	5	11	19	17	13	20	3	21	2	7	9	31	25	33	20	24	43	31	35	29	18	22	20	6	27	37	31	35	30	...	21.5	
Hammononton	Maximum...	28	32	39	28	32	31	32	32	20	19	28	37	39	51	42	62	64	63	48	34	34	32	37	51	41	55	16	41	...	39.3		
	Minimum...	8	14	19	17	24	24	-2	18	6	10	11	24	30	32	28	26	37	33	38	33	23	23	24	22	32	26	28	37	36	...	23.5	
Hightstown	Maximum...	27	36	33	27	31	26	33	32	23	23	33	40	37	51	40	46	54	56	67	56	32	31	31	34	48	46	49	43	43	...	38.9	
	Minimum...	4	7	18	14	14	19	-4	19	-2	5	5	28	20	31	21	19	41	40	62	49	60	62	69	60	36	31	34	40	52	44	...	19.7
Indian Mills	Maximum...	28	39	35	32	30	32	35	37	26	27	38	42	37	55	39	48	60	62	69	60	36	31	34	40	52	47	54	44	45	...	41.9	
	Minimum...	7	9	20	17	14	21	-6	23	6	6	6	32	25	35	26	22	44	28	34	30	18	24	20	8	31	38	27	37	31	...	21.8	
Jersey City*	Maximum...	23	35	31	19	25	30	36	20	21	30	40	35	45	34	40	53	55	53	53	28	30	31	30	45	40	46	38	39	...	35.5		
	Minimum...	4	14	19	10	12	18	15	13	8	8	8	28	25	29	20	23	39	36	37	23	18	22	18	14	30	34	37	33	23	...	21.3	
Lakewood	Maximum...
	Minimum...
Lambertville	Maximum...	30	37	36	24	35	31	33	37	26	27	30	43	34	49	38	47	55	58	62	56	35	34	36	38	50	47	50	41	41	...	40.2	
	Minimum...	3	8	15	13	16	16	-4	25	-1	5	-1	30	21	30	22	16	36	26	32	19	24	17	3	32	37	25	35	32	...	19.4		
Layton	Maximum...	27	41	38	22	30	29	31	30	24	20	20	39	39	50	38	40	53	50	54	50	32	32	35	35	50	48	44	34	37	...	37.0	
	Minimum...	-21	-5	15	1	9	8	-11	22	-16	-15	-12	18	8	27	14	1	25	22	23	25	9	17	3	-7	25	32	28	30	...	10.5		
Little Falls/	Maximum...	35	40	30	22	29	30	35	35	24	23	38	44	48	51	36	45	55	54	55	37	39	31	33	38	47	41	46	41	41	...	38.7	
	Minimum...	-7	5	13	7	11	20	-2	19	6	4	3	15	16	25	20	12	28	25	29	36	16	22	15	2	23	33	31	32	...	16.7		
Long Branch*	Maximum...	28	37	32	25	28	29	35	33	22	24	37	42	37	53	34	46	56	57	59	58	31	30	30	35	49	44	48	39	44	...	38.7	
	Minimum...	13	15	21	18	17	16	9	15	6	11	21	32	26	34	23	21	35	34	35	26	21	24	24	15	30	35	31	34	29	...	23.1	
Long Valley/	Maximum...	26	36	32	18	27	29	31	34	21	23	33	42	44	42	33	43	54	55	54	39	31	29	33	41	43	40	44	37	37	...	36.2	
	Minimum...	-4	-1	11	11	10	18	-8	20	-8	-1	-8	31	44	32	11	8	34	18	27	31	15	20	6	-5	26	33	25	32	...	14.7		
Millville	Maximum...	29	37	37	33	29	33	36	25	36	40	41	54	40	48	61	64	67	54	56	32	35	43	52	48	56	54	47	42	...	42.7		
	Minimum...	12	12	18	18	13	13	-3	15	10	9	10	27	27	31	23	24	31	28	38	25	20	25	15	14	32	34	25	37	28	...	21.1	
Moorestown*	Maximum...	27	36	33	23	29	30	35	35	18	23	32	41	40	53	37	50	57	59	67	57	23	28	31	40	50	47	52	40	42	...	39.5	
	Minimum...	8	15	21	15	12	12	1	13	6	7	8	31	26	35	27	23	36	33	36	25	20	23	20	11	32	36	31	35	28	...	22.6	
Morris Plains	Maximum...	27	39	38	26	28	29																										

51.05
WVJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION

A. E. WHITE.
TRENTON, N. J.

VOL. LIII. MARCH 1948 No. 3

GENERAL SUMMARY

The first half of March was considerably colder than normal but the latter half averaged about 10° warmer than normal. Cold periods were the 5-6th and from the 12th to 14th. On the 6th, a reading of 12° below zero was registered at Layton which was within 3° of the State record for March. It was unseasonably warm from the 20th to 22d, and six stations in South Jersey reported monthly maxima of 86° on the 21st.

Precipitation was frequent but the amounts were generally light or moderate and the monthly totals averaged slightly below normal. Snow fell on the 2d, 4th and 7th, and on the 11th at some northern stations. Snowfall was less than normal for the month, however, and precipitation was largely in the form of rain. Sleet and glaze were reported in the State on 6 days during the first half of the month, and thunderstorms occurred on 7 days during the latter half of the month. Heavy fog was recorded on 9 days somewhere in the State. Gale winds were registered on the 16th and 27th, but the month was not especially windy. Vegetation made considerable advancement during the last ten days and some planting of early truck crops was done in extreme south Jersey.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 43 stations, was 42.0°, which was 2.6° above normal. The highest temperature was 86° at 6 stations on the 21st, and the lowest, -12°, at Layton on the 6th. The highest monthly mean temperature was 45.4° at Bridgeton and Burlington, and the lowest, 37.2° at Newton. The temperature departure from the normal for the year 1948, to date, for the State is -1.5°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 62 stations, was 3.57 inches, which was 0.24 inch below normal. The average total snowfall at 30 selected stations was 3.4 inches, which was 1.1 inches below normal. The greatest monthly precipitation was 5.44 inches, at Paterson, and the least, 2.20 inches at Millville. The greatest amount of precipitation in any 24 consecutive hours was 1.41 inches at Woodcliff Lake on the 27th. The average for the Highlands was 3.68 inches; for the Red Sandstone Plain, 3.66 inches; for the Southern Interior, 3.44 inches; and for the Sea Coast, 3.84 inches. The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, -0.50 inch; Red Sandstone Plain, -0.79 inch; Southern Interior, +0.37 inch; Sea Coast, +1.48 inches.

DATES OF MISCELLANEOUS PHENOMENA

THUNDERSTORMS: 16, 21, 22, 23, 24, 27, 28. HAIL: 17, 21, 22, 23, 24, 27, 28. SLEET: 2, 3, 4, 7, 11. HEAVY FOG: 2, 3, 7, 8, 10, 11, 19, 21, 22. GLAZE: 2, 3, 4, 7, 11, 12.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.85	5	29.34	27	17.6	42	s.	16	83	73	78	57	716
Long Branch.....	30.87	5	29.26	27	13.3	40	nw.	17	83	70*	74	55	727
Newark.....	30.87	5	29.25	27	.....	40	sw.	16	74	59	67	.....	720
Trenton.....	30.89	5	29.26	27	10.7	33	sw.	16	77	66*	....	51	680

* Noon

COMPARATIVE DATA FOR MARCH

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	30.4	66	2	1.10	.....	.....	.....	.....	.....
1886.....	37.7	70	9	3.70	.....	.....	.....	.....	.....
1887.....	37.7	61	8	3.34	.....	10	.....	.....	.....
1888.....	32.8	72	0	5.71	.....	11	.....	.....	.....
1889.....	40.5	67	19	3.79	.....	8	.....	.....	.....
1890.....	37.6	78	0	6.08	.....	14	.....	.....	.....
1891.....	37.2	68	4	5.06	.....	12	8	10	13
1892.....	34.4	64	6	4.75	.....	9	10	12	9
1893.....	37.0	68	6	3.73	.....	10	10	10	11
1894.....	44.2	83	12	1.77	.....	10	12	11	8
1895.....	36.7	72	7	3.16	4.0	10	12	8	11
1896.....	34.0	69	-8	5.34	13.2	11	13	8	10
1897.....	40.0	77	18	2.78	1.6	10	11	9	11
1898.....	45.1	77	16	3.33	3.0	12	9	10	12
1899.....	38.6	73	13	6.54	5.4	13	7	10	14
1900.....	35.6	67	-9	3.51	7.0	10	12	12	7
1901.....	39.2	75	-8	4.64	0.9	12	9	10	12
1902.....	43.9	77	0	4.34	5.7	11	12	10	9
1903.....	47.6	79	13	5.13	T.	10	11	8	12
1904.....	37.2	72	1	3.43	4.5	13	11	8	12
1905.....	39.8	87	-7	3.95	2.6	12	14	8	9
1906.....	34.4	62	-15	5.09	11.2	11	10	9	12
1907.....	41.2	88	-11	3.04	11.5	10	13	10	8
1908.....	41.8	89	7	2.80	3.5	12	11	9	11
1909.....	38.3	74	-6	3.48	4.6	13	12	10	9
1910.....	44.5	88	10	1.22	1.1	6	14	10	7
1911.....	37.6	76	3	3.38	5.3	11	10	12	9
1912.....	36.9	72	3	7.61	6.6	14	9	11	11
1913.....	44.8	79	1	5.15	0.1	12	10	9	12
1914.....	35.4	75	-6	8.65	20.5	10	13	10	8
1915.....	36.1	63	11	1.13	7.4	3	20	7	4
1916.....	31.7	71	-7	3.48	19.3	12	13	8	10
1917.....	38.2	72	0	4.65	9.8	13	12	8	14
1918.....	41.8	82	8	2.06	0.7	9	17	7	7
1919.....	43.2	77	12	5.32	1.6	13	14	7	10
1920.....	39.4	79	-8	3.80	5.6	10	17	5	9
1921.....	49.1	92	11	3.03	T.	11	14	10	7
1922.....	41.1	82	2	4.52	3.7	13	12	6	13
1923.....	38.0	81	-3	4.09	6.3	10	17	6	8
1924.....	38.8	76	5	2.51	2.7	8	16	6	9
1925.....	43.3	80	1	3.47	0.3	9	16	6	9
1926.....	35.1	79	0	2.25	0.4	7	16	9	6
1927.....	41.9	81	9	1.46	0.3	10	14	7	10
1928.....	38.3	82	6	2.84	4.9	10	14	8	9
1929.....	44.9	81	5	3.07	0.7	11	15	6	10
1930.....	40.0	78	9	2.54	0.1	7	16	7	8
1931.....	39.2	64	12	4.14	2.0	10	8	9	14
1932.....	36.6	69	3	5.49	2.5	9	14	6	11
1933.....	38.2	70	8	4.94	1.7	13	10	7	14
1934.....	36.5	77	-7	3.31	9.6	12	13	7	11
1935.....	43.0	81	-6	2.46	1.5	10	13	5	13
1936.....	45.3	78	-1	5.28	1.4	13	10	9	12
1937.....	35.8	66	7	2.75	4.3	10	14	6	11
1938.....	43.2	85	-1	2.15	1.6	11	12	7	12
1939.....	40.1	88	2	4.83	2.0	13	12	7	12
1940.....	34.7	72	8	5.14	3.3	12	10	9	12
1941.....	34.5	63	3	2.78	14.6	8	16	6	9
1942.....	42.2	72	16	5.73	1.7	12	10	8	13
1943.....	39.4	85	-10	3.03	6.5	10	13	7	11
1944.....	37.1	74	2	5.70	6.3	12	10	10	11
1945.....	49.2	91	11	2.37	0.1	10	14	7	10
1946.....	47.9	83	8	3.17	T.	10	15	7	9
1947.....	36.5	67	0	2.71	4.4	7	12	10	9
1948.....	42.0	86	-12	3.57	3.4	13	11	8	12
Period.....	39.4	92	-15	3.81	4.5	12	13	8	10

Climatological Data for March 1948

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic.....	8	76	42.0	+3.4	77	20	13	6	3.48	-0.12	0.78	2	T.	13	8	7	16	n.	U. S. Weather Bureau.
Belleplain.....	Cape May.....	49	64	44.6	+3.4	86	21	6	6	3.25	-0.57	0.90	2	.....	13	13	6	12	s.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	7	.....	.....	.....	.....	.....	.....	4.24	.....	1.13	2	.....	13	14	8	9	se.	City Water Dept.
Belvidere.....	Warren.....	289	56	41.6	+2.9	78	22	3	6	4.50	+0.68	1.17	27	1.5	15	13	8	10	.....	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	7	.....	.....	.....	.....	.....	.....	3.01	.....	0.90	2-3	1.2	11	.....	.....	.....	e.	Samuel H. McCulley.
Boonton.....	Morris.....	280	68	37.8	+1.6	72	31	1	6	2.99	-0.57	0.80	2-3	.....	13	.....	.....	.....	nw.	J. C. Water Works.
Bridgeton.....	Cumberland.....	30	65	45.4	+2.9	86	21	12	5	3.00	-1.06	0.61	7	0	11	14	4	13	nw.	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	7	.....	.....	.....	.....	.....	.....	2.87	.....	0.77	2	.....	9	.....	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	62	45.4	+3.0	83	21	10	5	3.04	-0.75	0.90	2	2.0	9	12	8	11	sw.	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	18	39.1	+1.9	76	21	1	6	3.64	-1.06	0.85	2-3	2.2	14	12	11	8	nw.	N. J. Dept. of Conservation
Cape May.....	Cape May.....	17	60	43.8	+2.0	74	20	16	5	3.42	-0.42	0.75	7	.....	16	14	9	8	se.	Richard F. Umfrid, Jr.
Charlotteburg††.....	Passaic.....	760	66	39.2	+2.8	76	21	0	5†	3.48	-0.68	0.82	2	5.3	13	9	7	16	s.	Newark Water Dept.
Chatham.....	Morris.....	185	44	.....	.....	.....	.....	.....	.....	3.86	-0.23	0.80	2-3	.....	14	13	7	11	.....	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	8	45.0	.....	86	21	4	6	3.99	.....	0.77	2	.....	11	9	11	11	sw.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	35	44.8	+2.8	86	21	8	6	3.80	+0.18	0.90	2-3	1.0	15	12	7	12	ne.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	6	.....	.....	.....	.....	.....	.....	3.37	.....	0.87	2	3.5	14	13	6	12	nw.	L. W. Klockner.
Cuivers Lake††.....	Sussex.....	760	47	.....	.....	.....	.....	.....	.....	3.27	+0.04	0.73	2	9.7	11	.....	.....	.....	.....	L. S. Depue.
Elizabeth.....	Union.....	33	69	43.2	+3.6	77	22	7	5	3.03	-1.04	0.48	23-24	3.2	14	12	4	15	ne.	Union County Park Comm
Flemington, 2 mi. NE.....	Hunterdon.....	134	62	43.3	+2.7	78	21	8	5	3.31	-0.45	0.86	2	2.6	13	12	9	10	s.	Hiram E. Deats.
Freehold.....	Monmouth.....	194	44	43.4	+3.6	83	21	6	6	4.22	-0.27	0.98	2	1.2	15	12	4	16	s.	Moreau Plant Co.
Hammoncton.....	Atlantic.....	95	42	.....	.....	.....	.....	.....	.....	3.47	-0.50	1.09	2	.....	10	10	8	13	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	100	56	43.3	+2.6	82	21	8	5	4.54	+0.77	0.94	2	2.4	14	10	11	10	sw.	James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	59	43.4	+2.3	86	21	3	6	3.27	-0.74	0.88	2	1.9	11	8	11	12	sw.	Edward Entwistle.
Jersey City.....	Hudson.....	135	50	40.0	-0.1	71	22	8	5	2.87	-1.10	1.05	2	.....	11	14	4	13	sw.	J. C. Water Dept.
Lakewood.....	Ocean.....	64	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(Vacant)
Lambertville.....	Hunterdon.....	76	61	43.3	+3.8	80	27	8	6	4.20	+0.42	0.90	1-2	1.0	14	13	9	9	s.	George Bailey.
Layton††, 3 miles NW.....	Sussex.....	480	47	37.7	+1.9	74	22	-12	6	3.19	-0.17	0.75	19-20	8.6	11	12	5	14	sw.	A. M. Depue.
Little Falls.....	Passaic.....	157	45	40.8	+1.8	78	20	4	6	3.46	-0.31	0.95	26-27	3.2	14	6	11	14	nw.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	40	41.6	+2.1	79	22	9	6	4.22	+0.10	1.14	2	2.9	14	11	9	11	s.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	18	38.4	+2.6	73	22	1	6	4.19	+0.27	0.80	27	8.0	14	14	6	11	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	7	.....	.....	.....	.....	.....	.....	3.34	.....	0.90	2	2.5	14	13	6	12	ne.	David Griscorn.
Mays Landing.....	Atlantic.....	50	4	.....	.....	.....	.....	.....	.....	3.76	.....	0.86	9-10	.....	14	10	9	12	nw.	Elmer Earle.
Millville, 2 mi. SW.....	Cumberland.....	60	8	44.0	.....	86	21	9	6	2.20	.....	0.63	7	T.	10	8	11	12	s.	Millville Airport.
Moorestown.....	Burlington.....	62	85	42.7	+2.7	84	21	10	5†	2.92	-0.76	0.84	2	2.9	16	.....	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	7	41.2	.....	74	22†	4	5	3.72	.....	1.00	2	4.6	16	14	2	15	.....	James C. Long.
Newark.....	Essex.....	11	94	41.8	+2.2	76	22	9	5	3.74	-0.16	1.12	2	4.0	13	9	9	13	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	99	94	43.2	+4.1	79	21†	8	5	3.48	-0.20	1.07	2	1.7	14	15	2	14	se.	N. J. Experiment Station.
New Milford††.....	Bergen.....	12	30	.....	.....	.....	.....	.....	.....	3.65	-0.11	0.95	2	.....	11	.....	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	65	37.2	+1.1	72	21†	-4	6	3.96	+0.68	0.90	2	5.1	13	9	17	5	sw.	Charles M. Wheeler.
Orange††.....	Essex.....	140	8	.....	.....	.....	.....	.....	.....	3.68	.....	0.66	2	.....	12	.....	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	100	77	39.8	+0.4	72	22	7	5	6.44	+1.29	1.27	2	4.6	14	10	13	8	w.	Philip J. Del Vecchio
Pemberton.....	Burlington.....	60	19	44.8	+2.7	82	21	5	6	2.81	-0.78	0.84	2	2.5	13	14	6	11	sw.	Charles A. Doehert.
Phillipsburg.....	Warren.....	182	65	40.1	+1.6	76	21	8	5	3.46	-0.04	0.79	26-27	5.5	10	12	12	7	.....	Town Engineer.
Plainfield.....	Union.....	120	60	41.8	+2.6	78	22	7	5	3.76	-0.33	1.02	2	3.6	13	11	9	11	nw.	S. K. Pearson.
Plainsboro.....	Middlesex.....	110	7	.....	.....	.....	.....	.....	.....	4.11	.....	1.12	2	2.5	10	.....	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	50	41.6	+1.0	86	22	2	6	3.99	+0.36	0.70	2	T.	14	14	4	13	s.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	9	.....	.....	.....	.....	.....	.....	3.61	.....	.....	.....	.....	15	13	4	14	w.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	31	40.6	+1.8	74	22	7	5†	3.81	-0.17	1.00	2	4.3	12	11	8	12	se.	George P. Kirsten.
Ringwood.....	Passaic.....	.....	0	.....	.....	.....	.....	.....	.....	2.94	.....	0.75	2-3	3.4	14	13	5	13	.....	No. Jersey Water Supply
Runnemede.....	Camden.....	42	0	45.1	.....	86	21	9	6	3.24	.....	0.81	2	2.1	12	11	6	14	s.	Henry D. Mosher
Runyon††.....	Middlesex.....	18	26	42.2	+2.9	79	21	0	6	4.12	+0.61	1.00	2	1.5	13	13	8	10	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	61	4	41.8	.....	76	22	7	5	3.97	.....	1.01	1-2	5.5	14	6	7	18	s.	Harold Scott.
Sandy Hook.....	Monmouth.....	22	50	41.2	+1.9	69	16†	12	5	3.85	-0.19	0.99	2	1.0	13	11	12	8	.....	U. S. Coast Guard.
Somerville.....	Somerset.....	65	65	42.8	+3.8	76	21	8	5†	3.56	-0.26	0.92	2	2.1	13	9	6	16	e.	William E. Haver.
Sussex.....	Sussex.....	450	63	39.6	+2.6	73	22	-4	6	4.11	+0.67	0.75	19	8.0	15	12	3	16	sw.	Marshall Hunt.
Swedesboro.....	Gloucester.....	75	2	.....	.....	.....	.....	.....	.....	3.12	.....	0.67	2	.....	12	14	9	8	s.	E. F. Hurff Co.
Toms River.....	Ocean.....	33	27	.....	.....	.....	.....	.....	.....	3.99	-0.55	0.90	2	4.3	12	.....	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	56	76	43.2	+4.1	82	21	10	5	8.91	+0.51	0.92	2-3	2.2	14	8	9	14	s.	SECTION CENTER USWB.
Trenton No. 2.....	.....do.....	105	18	43.5	+3.2	82	21	10	5	4.57	+0.53	0.97	2	2.7	13	.....	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(Vacant)
Vineland.....	Cumberland.....	110	68	.....	.....	.....	.....	.....	.....	2.94	-1.01	0.58	9†	.....	11	12	8	11	s.	Robert Jones.
Westfield.....	Union.....	135	9	.....	.....	.....	.....	.....	.....	3.42	.....	.....	.....	3.3	13	12	7	12	w.	Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	30	.....	.....	.....	.....	.....	.....	4.20	-0.50	1.41	27	.....	11	.....	.....	.....	.....	Hackensack Water Co.
Woodstown, 2 mi. N.....	Salem.....	16	12	42.8	.....	86	21	8	6	2.73	.....	0.72	2-3	1.6	10	14	3	14	.....	Charles Clark.
New York, N. Y.....	.....	10	78	42.0	+4.3	73	22	8	5	3.71	+0.07	1.04	2	4.1	14	9	10	12	n.	U. S. Weather Bureau.
Philadelphia, Pa.....	.....	26	78	44.8	+4.0	84	21	12	5	4.14	+0.75	0.91	2-3	2.2	14	9	6	16	s.	U. S. Weather Bureau
For the State.....	.....	.....	.....	42.0	+2.6	86	21	-12	6	3.57	-0.24	1.41	27	3.4	13	11	8	12	s.	.....

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. †† Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Cuivers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for March 1948

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast	T.	.78	.02	.24			.57		.26	.29	T.					.14	.02		.02				.34	.19		.07	.54					3.48	
Bass River	do.																																3.25	
Belleplain	Tuckahoe		.90		.25	.07		.70		.10	.05						.15	.09		.05	.02			.27	.08			.52					4.24	
Belmar ²	Coast	1.13	T.	.19				.35		.43	.14	.27					.19	.05		.11				.78	.01		.08	.51	T.				4.50	
Belvidere	Delaware	.76	.08	.09				.42				.15					.50	.01		.50	.10	.04	.12	.32	.14			1.17	.10				3.01	
Berlin ³	Mullica	.90	.10	.08			.06	.30		.52		.20						.10						.40	.20			T.	.15				2.99	
Boonton ³	Passaic	.19	.80	T.	.06			.07	.21		.06		.12				.33	.11					.13	.16			.21	.54					3.00	
Bridgeton	Delaware	.23		.30				.61		.26	.39	.28					.06			.04				.30	.06			.47					2.87	
Brooklawn	do.	.77		.22				.30		T.	.44	.26	T.						.18					.31	.21			.18	T.				3.04	
Burlington	do.	.90	.04	.20	T.			.43			.46													.36	.10			.40	.15				3.54	
Canoe Brook ³	Passaic	.21	.85	.02	T.	.08		.10	.22		.20		.25				.25				.35		.07		.28			.14	.52				3.09	
Canton ²	Delaware	.22	.39	.32	T.			.52	.02		.45		.14				.08	.08		T.				.05	.62	.04		.24					3.42	
Cape May ^{1†}	Coast	.50		.14	.01			.75	.01	.02	.43	.04	.01				.08	.13		.01				.40	.20			.40	.29				3.48	
Charlotteburg	Passaic	.82	.11	.10	T.			.27	T.		.02	.14					.35			.31	.05		.65	.15	.03			.58					3.86	
Chatham ³	do.	.20	.80		.07			.10	.20		.26		.26				.32	.12			.36		.07		.27	T.		.16	.67				3.99	
Chatsworth	Coast	.77	T.	.30	T.			.42			.75	.32	T.				.06			.06				.71			.60						3.80	
Clayton	Delaware	.87	.03	.14				.53		.17	.44	.31	.04				.03	.04		.08				.34	.19		.05	.54					3.37	
Clinton	Raritan	.84	.03	.08				.28			.06	.22					.29			.36	.04	.02	T.	.32	.03			.42	.38				3.27	
Culvers Lake	do.	.73	T.	.12				.28			.25						.51	T.		.30	.20	T.	.30	.20			.15	.23					3.03	
Elizabeth	Coast	.15		.20	T.			.39			.44	.01	.24				.22	T.		.25	.07		.01	.42	.06			.24	.33				4.49	
Essex Fells ³	Passaic	.20	.75	T.	.60			*	.32		.22	T.	.21				.25	T.				T.	.45		.22		1.12						3.31	
Flemington	Raritan	.86	.08	.09				.34				.14	.11				.28			.33	.05	T.		.37	.03			.39	.24				4.22	
Freehold	do.	.98	T.	.15	T.			.36		.01	.40	.16	.12				.35	.20		.11	.06	T.		.64	.03		.44	.21					3.47	
Hammonton	Mullica	1.09						.88			.58	.10	T.				.02			.08			T.				.06						4.54	
Hightstown	Raritan	.94	.11	.16				.40		T.	.53	.35					.24	.18		.16	.07			.46	.05			.41	.48				3.27	
Indian Mills	Mullica	.88		.29				.36			.10	.42	.10				T.	.10		.06	T.			.52	.07			.37	T.				2.87	
Jersey City ²	Coast	1.06		.05				.28			.16	.15	.19				.06				.20				.22			.01	.50					4.20
Lakewood	Metedeconk							.39		.03	.46	.25					.35	T.		.24	.23			.54	.06			.35	.24				3.19	
Lambertville	Delaware	.90	.04	.12				.26				.10					.51			.49	.26		.26	.18	.08			.36					3.46	
Layton	do.	.66		.03				.13	.17			.17		.17			.27				.27		.20		.17			.09	.86				4.22	
Little Falls ³	Passaic	.37	.54	.03	.02			.37		.37	.11	.29					.28	.08		.12		T.		.62	.01		.04	.43					4.19	
Long Branch ^{1†}	Coast	1.14	.03	.33				T.	.46		T.	.05		.12			.42	.15			.46		.40		.32	.03		.06	.80				T.	3.20
Loug Valley ³	Raritan		.95		.05			.35		.20	.15	.17					.10			.23			.47		.03	.50							3.34	
Mauville ²	do.	.90		.35				.28		.30	.19	.15					.15	.02		.10	.04			.50	.12		.01	.23					3.76	
Marlton	Delaware	.71	.16	.27				.67		.56	.30	.01					.04	.03		.05			.32	.08			*	.26	.30				2.20	
Mays Landing	Gt. Egg Harbor	.82		.06				.29			.08	.12					.28			.30		.58		.17			1.03						2.02	
Midland Park ²	Passaic	.19	T.	.30				.63		.44	.16	T.					.12	T.		T.			.28	.01		.02	.05						3.72	
Millville (Arpt.) ^{1†}	Maurice	.19	T.	.30				.63		.44	.16	T.					.12	T.		T.			.28	.01		.02	.05						3.74	
Moorestown ³	Delaware	.03	.81	.14	.02			.12	.18		.43		.21				.06	.07		.10			T.	.40	.02		.24	.09					3.48	
Morris Plains	Passaic	.95	.05	.08				.33		.05	.13	.01					.48			.34	.02	T.	.01	.15	.05		.32	.75					3.65	
Newark ¹	Coast	1.12	.03	.07				.31		.19	.15	.23					.28	T.		.27		.04		.31	T.		.22	.52					3.96	
New Brunswick	Raritan	1.06	.01	.07	T.			.33	T.		.52	.15	.05				.24	T.		.18	.06		.44	.03		.14	.20						3.68	
New Milford ^{1†}	Hackensack	.95		.07				.40		.12	.08	.20					.22			.27		.46		.15			.73						5.44	
Newton ³	Delaware	T.	.20	.70		.06		.11	.19			T.	.17			T.	.26	.17		.43		.62		.23	T.		.10	.72					3.76	
Orange ¹	Passaic	.66	.22	.20				.37			.37		.22				.33			.22			.07	.16			.40	.46					2.81	
Paterson ²	do.	.32	.95	T.	.24			.09	.41		.19		.34				.17	.09		.30		.83	T.	.22	T.		.33	.96					3.45	
Pemberton	Delaware	.82	.02	.18	T.			.26	T.		.51	.10	.05				.15	.01		.07			.45				.19						3.76	
Phillipsburg	do.	.74	.04	.14				.80		T.	T.	.14					.31			.45	T.		.33	.21		T.	.79	T.					4.11	
Plainfield	Raritan	1.02	.03	.18				.35		.02	.37	.35					.24			.25	.03	T.		.42	.02		T.	.48					3.99	
Plainsboro	do.	1.12	T.	.20				.40		T.	.37	.78					.34	T.		.30	T.		.35	.05			T.	.20					3.61	
Pleasantville ³	Coast	.05	.65	.23	.07			.24	.37		.66						.25			.29		.08		.06	.56	.04		.41	.37				2.94	
Rahway ^{1†}	Rahway	*	1.12	.06				.34		.35		.52		.18			.25			.29			*	.50			*	.34					3.81	
Ridgefield	Hackensack	1.00		.12				.34		.33	.30						.23			.23		.34	T.	.25	.02		T.	.58	.07				2.94	
Ringwood ³	Passaic	.19	.75	.04	T.			.15	.05		.12		.10				.24	.01			.29		.30		.20		.08	.42					3.24	
Runnemede																																		

Daily Temperatures for March 1948

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Atlantic City*	Maximum...	36	48	39	36	29	36	50	46	41	47	40	36	38	42	48	52	62	45	50	77	64	84	59	63	50	52	59	55	40	50	53	49.3	
	Minimum...	27	35	34	25	13	15	33	33	34	38	28	23	21	28	40	44	39	35	39	47	46	51	39	39	39	40	48	30	27	39	45	34.6	
Belleplain	Maximum...	42	48	48	38	34	42	52	46	45	52	50	36	38	47	65	62	62	56	58	75	85	83	70	62	62	70	65	65	47	67	74	56.3	
	Minimum...	21	32	33	33	10	6	30	31	22	39	33	27	18	14	32	54	53	26	25	48	49	62	42	40	32	27	55	37	22	34	40	33.0	
Belvidere	Maximum...	32	33	37	39	32	44	39	43	50	53	40	37	35	47	54	69	63	54	51	75	70	78	68	69	62	62	63	58	52	68	70	53.1	
	Minimum...	15	26	30	31	7	3	29	29	23	35	24	14	15	17	42	43	41	26	33	45	42	50	42	40	26	30	50	30	23	34	42	30.2	
Boonton/	Maximum...	32	33	36	36	26	41	38	43	48	53	33	32	35	45	56	65	51	56	59	69	70	71	44	66	57	60	66	38	47	54	72	49.4	
	Minimum...	15	19	26	30	5	1	12	28	21	21	29	13	15	15	21	24	44	26	29	32	38	44	42	37	32	27	38	36	25	28	36	26.1	
Bridgeton	Maximum...	40	45	50	38	32	40	50	46	45	51	45	34	38	49	66	65	61	58	58	76	86	83	70	64	63	70	68	63	52	71	73	56.5	
	Minimum...	21	30	38	32	12	13	30	30	27	40	33	19	19	20	36	51	50	29	31	45	53	60	40	43	32	55	36	25	36	45	34.4		
Burlington	Maximum...	39	37	44	40	35	40	39	41	48	50	49	45	38	51	64	67	65	56	60	73	83	82	82	82	69	70	72	72	70	71	72	58.3	
	Minimum...	20	29	33	30	10	12	29	28	28	16	30	17	18	17	29	49	48	29	29	50	52	62	38	39	55	30	57	26	25	31	40	32.5	
Canoe Brook/	Maximum...	33	33	37	38	29	42	38	44	50	54	33	35	39	46	60	62	54	56	60	72	75	74	45	68	58	60	68	42	49	68	70	51.4	
	Minimum...	13	20	29	30	4	1	19	30	18	31	27	13	15	12	20	33	44	22	26	40	36	46	43	38	27	23	39	37	29	31	26.8		
Cape May	Maximum...	41	45	44	39	37	36	48	44	43	47	52	50	37	43	52	58	57	53	51	74	72	72	68	54	59	62	58	45	60	58	52.0		
	Minimum...	10	22	27	27	0	0	24	24	14	34	25	8	10	6	18	43	41	27	30	48	33	52	38	35	40	23	50	30	18	30	31	26.4	
Charlotteburg	Maximum...	33	33	35	36	32	43	37	41	48	51	49	31	33	39	52	64	63	55	52	67	75	72	72	65	74	56	63	60	51	65	69	52.1	
	Minimum...	10	22	27	27	0	0	24	24	14	34	25	8	10	6	18	43	41	27	30	48	33	52	38	35	40	23	50	30	18	30	31	26.4	
Chatsworth	Maximum...	42	43	43	39	33	42	49	45	46	48	48	33	36	49	67	66	65	58	56	75	86	85	76	64	64	71	68	68	50	77	70	56.8	
	Minimum...	21	29	33	31	8	4	29	31	20	38	29	18	12	12	33	52	51	42	46	52	65	65	49	37	31	26	55	35	19	31	39	33.2	
Clayton	Maximum...	38	43	48	36	29	39	50	46	46	50	43	35	38	49	66	65	64	58	59	75	86	82	70	65	60	70	69	67	50	69	71	56.0	
	Minimum...	18	30	34	25	10	8	30	32	25	39	31	18	17	17	35	54	49	29	32	54	52	65	39	33	31	56	36	24	34	45	33.6		
Elizabeth	Maximum...	35	42	38	37	34	43	43	45	52	54	53	35	37	47	64	67	66	57	53	75	76	77	72	69	67	61	68	68	50	68	73	55.7	
	Minimum...	18	26	31	31	7	8	29	28	24	38	27	14	15	18	26	49	45	26	30	51	44	51	40	32	36	28	51	36	22	29	39	30.6	
Flemington	Maximum...	34	33	41	36	35	47	43	47	50	54	50	38	42	48	62	68	65	59	56	76	78	76	69	69	64	67	70	68	51	69	72	56.0	
	Minimum...	17	26	32	30	8	9	28	30	25	36	26	16	16	18	24	49	48	25	30	47	42	51	40	38	37	26	56	34	21	31	34	30.6	
Freehold	Maximum...	33	38	40	35	33	40	45	44	50	48	45	32	36	48	65	67	65	55	56	73	83	78	71	65	63	66	68	65	48	68	68	54.5	
	Minimum...	20	27	31	30	7	6	32	31	26	37	28	16	15	20	31	51	46	27	30	56	47	64	39	37	35	28	56	37	21	31	40	32.3	
Hammononton	Maximum...																																	
	Minimum...																																	
Hightstown	Maximum...	33	36	42	37	34	40	38	44	50	49	47	33	36	49	64	67	65	56	57	72	82	76	71	65	63	70	68	67	49	68	69	54.7	
	Minimum...	18	27	31	30	8	10	28	29	25	37	29	15	17	18	29	53	47	27	29	54	45	63	39	38	35	27	56	32	23	31	39	31.9	
Indian Mills	Maximum...	35	41	44	35	33	40	46	45	48	40	34	37	49	67	65	63	58	60	75	86	83	71	63	59	70	68	65	50	70	71	55.5		
	Minimum...	19	29	33	31	8	3	30	31	21	38	29	18	10	12	31	54	44	22	25	55	51	66	39	38	24	57	31	18	32	41	31.4		
Jersey City*	Maximum...	29	32	36	32	23	38	38	41	45	47	39	30	32	37	55	59	47	53	69	62	71	57	65	50	52	64	51	40	57	60	47.6		
	Minimum...	17	29	31	18	8	12	29	33	31	37	20	15	17	27	33	48	38	31	38	46	56	37	37	39	39	51	27	25	34	44	32.3		
Lakewood	Maximum...																																	
	Minimum...																																	
Lambertville	Maximum...	35	35	44	37	33	43	38	44	48	51	42	35	37	47	62	68	64	57	59	73	80	75	68	67	61	67	70	68	50	68	71	54.8	
	Minimum...	19	28	33	32	10	8	30	28	23	38	25	17	16	25	54	42	25	30	52	44	62	42	39	35	27	57	34	22	34	38	31	31.8	
Layton	Maximum...	32	30	39	37	35	44	35	41	48	52	45	32	35	45	64	61	56	54	70	70	74	58	67	58	60	67	55	48	67	71	51.5		
	Minimum...	4	22	28	28	0	12	28	30	14	28	21	4	3	8	14	35	35	18	25	49	32	49	40	48	20	22	53	29	14	33	30	23.9	
Little Falls/	Maximum...	33	36	37	37	29	43	39	45	51	53	32	34	45	48	60	68	51	57	62	78	74	74	46	68	63	68	40	53	67	69	52.2		
	Minimum...	15	24	31	30	5	4	27	33	22	36	28	14	16	17	24	44	45	26	30	42	35	45	41	38	35	28	46	35	24	32	37	29.4	
Long Branch*	Maximum...	33	38	37	34	27	40	44	44	48	47	37	32	37	42	58	68	60	48	60	72	68	79	60	64	50	59	67	55	41	60	63	50.7	
	Minimum...	22	32	32	25	12	9	31	31	26	37	25	18	18	23	34	48	36	30	36	53	44	60	38	38	30	55	30	27	35	38	32.6		
Long Valley/	Maximum...	30	34	38	36	26	40	37	42	46	51	30	32	36	45	54	64	50	55	58	71	72	73	46	66	58	62	65	38	37	66	68	49.2	
	Minimum...	11	19	28	29	2	1	26	25	18	34	27	12	12	12	21	41	46	25	31	45	38	49	45	37	34	25	51	32	20	29	32	27.6	
Millville	Maximum...	39	43	49	37	33	42	50	47	52	44	35	38	46	66	64	64	58	58	76	86	83	71	64	59	68	64	64	49	67	68	55.9		
	Minimum...	21	30	34	31	11	9	30	29	22	33	25	19	15	15	37	51	37	26	27	49	51	63	41	39	30	54	29	22	36	42	38.2		
Moorestown*	Maximum...	35	37	45	34	27	38	38	44	47	49	38	33	36	49	65	67	57	55	61	74	84	80	62	65	58	68	69	55	49	68	70	53.5	
	Minimum...	20	29	33	18																													

51.05
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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION

A. E. WHITE.

TRENTON. N. J.

VOL. LIII. APRIL 1948 No. 4

GENERAL SUMMARY

The weather of April was characterized by considerable variability in day to day temperatures, warmer than normal days being replaced by cooler than normal in rapid succession. The most protracted warm spell, in comparison with the normal, occurred during the first eight days of the month while the longest cool period, by contrast, was at the end of the month. Abnormally high temperatures were also recorded on the 12th and 20th while many stations reported their coldest weather on the 18th. As a whole, April averaged about half a degree warmer than normal.

Precipitation for the month was almost exactly normal for the State, showing an excess of only 2%. The highlands in the northwest recorded the greatest amounts, with Pemberton and Hammonton having locally heavy measurements. No station reported more than a trace of snow where the normal amount is a little over an inch. Strong winds occurred on several days, mostly during the first half of the month. Frosts caused some damage to fruit during the middle of the month. Thunderstorms occurred on three days and heavy fog on nine days. No destructive storms were reported. N.W.H.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 44 stations, was 50.4°, which was 0.6° above normal. The highest temperature was 83° at Belvidere on the 21st, and the lowest, 18°, at Layton on the 18th. The highest monthly mean temperature was 53.1° at Burlington, and the lowest, 47.0° at Runyon. The temperature departure from the normal for the year 1948, to date, for the State is -1.2°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 62 stations, was 3.68 inches, which was 0.07 inch above normal. The average total snowfall for the State was a trace, which was 1.2 inches below normal. The greatest monthly precipitation was 5.56 inches, at Hammonton, and the least, 2.11 inches at Woodstown. The greatest amount of precipitation in any 24 consecutive hours was 2.24 inches at Millville on March 31st-April 1st. The average for the Highlands was 4.23 inches; for the Red Sandstone Plain, 3.61 inches; Southern Interior, 3.64 inches; and for the Sea Coast, 3.23 inches. The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, +0.12 inch; Red Sandstone Plain, -0.90 inch; Southern Interior, +0.43 inch; Sea Coast, +1.17 inches.

DATES OF MISCELLANEOUS PHENOMENA

THUNDERSTORMS: 13, 14, 30. KILLING FROSTS: 10, 11, 16, 18, 23.
HEAVY FOG: 1, 2, 6, 7, 8, 9, 11, 12, 25.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind			Relative Humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.59	18	29.55	30	16.8	45	se.	1	81	72	75	64	480
Long Branch.....	30.60	18	29.44	30	12.9	49	nw.	1	78	62*	68	50	469
Newark.....	30.60	18	29.41	30	.....	37	ws.	30	71	58	62	.....	438
Trenton.....	30.59	18	29.46	30	10.4	31	nw.	17	75	58*	.....	52	409

* Noon

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation		No. of days		
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy
1885.....	48.4	88	26	2.79	.....	.....	.....	.....
1886.....	50.6	86	27	3.40	.....	.....	.....	.....
1887.....	47.3	87	16	2.70	.....	7	.....	.....
1888.....	47.9	92	22	3.28	.....	9	.....	.....
1889.....	51.2	83	25	5.32	.....	12	.....	.....
1890.....	50.4	86	21	2.65	.....	8	.....	.....
1891.....	52.0	88	20	2.19	.....	8	13	11
1892.....	49.3	87	19	2.49	.....	8	9	13
1893.....	49.2	82	19	5.21	.....	11	9	10
1894.....	50.3	88	10	3.09	.....	9	12	9
1895.....	49.1	89	19	4.88	T.	10	11	7
1896.....	52.4	98	12	1.35	3.1	7	13	10
1897.....	50.4	89	19	3.79	T.	9	14	11
1898.....	47.8	81	13	3.74	2.9	11	8	11
1899.....	49.9	88	18	1.73	T.	4	16	10
1900.....	50.8	82	18	2.29	T.	6	14	9
1901.....	48.3	89	23	6.31	0	12	8	7
1902.....	50.2	93	20	3.62	0	9	10	11
1903.....	50.9	92	18	3.97	0	9	13	7
1904.....	46.7	85	16	3.42	0.1	10	9	12
1905.....	49.9	84	18	2.88	0.1	10	12	11
1906.....	51.2	87	17	3.64	T.	8	15	10
1907.....	45.2	83	19	3.78	4.8	11	11	9
1908.....	51.2	93	13	2.72	T.	11	14	9
1909.....	50.2	88	17	5.97	0.8	13	10	11
1910.....	53.5	88	20	5.34	0	12	9	11
1911.....	47.4	88	14	4.11	2.6	11	10	10
1912.....	50.4	82	18	3.56	0	14	9	10
1913.....	52.1	89	19	5.78	T.	11	14	7
1914.....	48.4	89	16	3.67	0	11	13	10
1915.....	54.4	96	20	2.71	11.5	9	14	10
1916.....	48.2	85	21	3.32	4.4	13	10	9
1917.....	48.8	88	21	2.39	4.7	9	15	8
1918.....	49.8	81	22	4.05	2.6	12	11	8
1919.....	49.3	85	15	3.06	T.	10	13	7
1920.....	48.0	85	13	4.50	T.	13	12	9
1921.....	56.3	87	20	3.57	0.4	11	13	6
1922.....	51.0	89	18	2.55	T.	10	15	7
1923.....	50.0	91	3	3.55	0.5	9	16	6
1924.....	48.0	81	18	6.15	6.6	11	15	6
1925.....	51.4	88	15	2.40	0	9	15	7
1926.....	46.4	87	14	2.05	T.	8	13	10
1927.....	47.5	93	17	2.42	0.3	9	14	7
1928.....	47.4	85	16	5.26	0.9	12	12	8
1929.....	51.1	94	25	6.43	T.	15	10	5
1930.....	47.6	79	18	2.34	T.	9	13	7
1931.....	49.8	80	20	2.85	T.	9	15	6
1932.....	48.3	82	18	2.71	0.1	7	15	7
1933.....	50.4	85	20	4.84	0.2	11	12	7
1934.....	49.4	85	21	3.89	T.	13	15	6
1935.....	48.7	91	22	2.27	0.3	10	10	8
1936.....	48.0	90	19	3.23	0.1	12	11	8
1937.....	49.3	85	16	4.64	T.	12	11	9
1938.....	53.0	94	12	2.82	2.8	9	14	8
1939.....	48.3	89	20	5.12	0.1	14	9	8
1940.....	45.5	79	15	5.62	2.2	12	9	8
1941.....	55.4	96	19	2.32	0	5	19	6
1942.....	53.1	95	18	1.39	1.6	4	15	8
1943.....	45.5	81	11	2.82	T.	11	12	9
1944.....	47.9	82	6	5.45	3.5	13	10	8
1945.....	54.5	90	20	3.28	T.	11	12	8
1946.....	50.1	86	19	1.51	T.	9	13	7
1947.....	50.5	87	18	4.33	0	12	12	8
1948.....	50.4	83	18	3.68	T.	11	10	8
Period.....	49.8	98	3	3.61	1.2	10	12	9

Climatological Data for April 1948

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy	
Atlantic City.....	Atlantic.....	8	75	49.0	+1.2	74	12	32	10	3.13	+0.14	1.52	1	0	10	4	7	19	U. S. Weather Bureau.
Belleplain.....	Cape May.....	49	54	50.8	+0.5	76	21	27	29	3.32	-0.28	1.32	1	0	12	14	4	12	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	7	50.8	.....	76	21	27	29	3.60	.....	1.85	1	0	10	18	7	5	City Water Dept.
Belvidere.....	Warren.....	289	56	51.4	+1.5	83	21	28	4	4.08	+0.37	0.90	1	T.	11	11	8	11	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	7	48.3	.....	75	20	26	18	4.09	.....	1.92	31-1	0	7	16	4	10	Samuel H. McCulley.
Boonton.....	Morris.....	280	58	48.3	0.0	75	20	26	18	3.86	+0.14	1.35	1	0	12	.....	.....	.....	J. C. Water Works.
Bridgeton.....	Cumberland.....	30	65	52.2	-0.2	81	20	30	4	3.76	+0.36	1.41	1	0	11	13	4	13	Bennett K. Matlack.
Brooklawn.....	Camden.....	30	7	53.0	+0.8	81	20	30	10	3.41	.....	1.53	1	0	7	.....	.....	.....	C. D. Scott.
Burlington.....	Burlington.....	12	62	53.0	+0.8	81	20	30	10	3.20	-0.54	1.63	1	0	9	13	8	9	Public Service E. & G. Co.
Canoe Brook††.....	Essex.....	180	18	48.9	+1.4	76	20	23	18	4.32	+0.43	1.86	1	0	11	9	5	16	N. J. Dept. of Conservation
Cape May.....	Cape May.....	17	60	51.4	+1.4	69	12	32	29	2.71	-0.39	1.18	1	0	10	9	14	7	Richard F. Umfrid, Jr.
Charlotteburg††.....	Passaic.....	760	56	48.6	+1.7	75	20	21	18	3.80	-0.34	1.07	1	0	12	6	3	21	Newark Water Dept.
Chatham.....	Morris.....	185	44	.....	.....	.....	.....	.....	.....	4.06	-0.10	1.68	1	0	11	13	6	11	Edward P. Molitor.
Chatsworth.....	Burlington.....	90	8	50.2	.....	80	20	24	23	3.85	.....	1.90	1	0	8	4	22	4	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	35	52.4	+1.2	79	20	29	18	4.02	+0.42	1.97	31-1	0	10	6	14	10	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	5	.....	.....	.....	.....	.....	.....	3.86	.....	1.14	31-1	0	13	10	7	13	L. W. Klockner.
Culvers Lake††.....	Sussex.....	760	47	.....	.....	.....	.....	.....	.....	3.94	+0.45	1.04	12	0	11	.....	.....	.....	L. S. Depue.
Elizabeth.....	Union.....	33	69	51.6	+0.5	77	20	28	4	3.87	+0.19	1.68	1	0	16	11	3	16	Union County Park Comm
Flemington, 2 mi. NE.....	Hunterdon.....	134	62	51.2	+0.7	77	20	27	23	3.20	-0.42	1.02	31-1	0	13	9	9	12	sw. Donald C. Young.
Freehold.....	Monmouth.....	194	44	50.1	+0.1	78	20	29	4	3.45	-0.23	1.84	1	0	11	11	6	13	w. Moreau Plant Co.
Hammoncton.....	Atlantic.....	95	42	52.6	+1.3	80	20	27	18	5.56	+1.74	2.06	1	0	9	12	5	13	sw. J. G. Wilson.
Hightstown.....	Mercer.....	100	55	50.4	+0.1	77	20	29	11†	3.12	-0.70	1.57	31-1	0	10	8	13	9	nw. James R. Pickering
Indian Mills††, 2 mi. W.....	Burlington.....	100	59	50.6	0.0	80	20	24	18†	3.84	+0.23	1.94	1	0	10	7	13	10	w. Edward Entwistle.
Jersey City.....	Hudson.....	135	50	48.8	-1.7	72	20	30	10	2.94	-0.88	1.29	1	0	11	10	5	15	sw. J. C. Water Dept.
Lakewood.....	Ocean.....	54	44	.....	.....	.....	.....	.....	.....	3.18	-0.55	1.33	1	0	11	11	10	9	..... (Vacant)
Lambertville.....	Hunterdon.....	75	61	51.4	+1.3	79	20	26	18	3.18	-0.55	1.33	1	0	11	11	10	9	George Bailey.
Layton††, 3 miles NW.....	Sussex.....	480	47	48.4	+1.5	78	20	18	18	5.26	+1.73	1.55	11-12	0	13	12	2	16	s. A. M. Depue.
Little Falls.....	Passaic.....	157	45	51.0	+1.3	75	20	28	18	3.57	-0.65	1.44	1	T.	13	7	14	9	w. Passaic Valley Water Co
Long Branch.....	Monmouth.....	34	40	49.2	+0.7	74	5	31	4†	3.57	-0.65	1.99	1	0	12	8	11	11	s. Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	18	48.4	+0.7	75	20	25	4†	4.54	+0.89	1.42	31-1	0	11	13	10	7	nw. Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	7	.....	.....	.....	.....	.....	.....	4.00	.....	1.50	31-1	0	12	12	9	9	s. David Griskom.
Mays Landing.....	Atlantic.....	50	4	.....	.....	.....	.....	.....	.....	3.28	.....	1.70	1	0	13	13	4	13	ne. Elmer Earle.
Millville, 2 mi. SW.....	Cumberland.....	60	8	50.6	.....	78	20	29	4†	4.60	.....	2.24	31-1	0	11	.....	.....	.....	ne. Millville Airport.
Moorestown.....	Burlington.....	62	85	50.4	-0.1	78	20	30	18†	3.60	+0.19	1.17	1	0	10	.....	.....	.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	7	50.6	.....	75	21	26	11	4.36	.....	1.70	31-1	T.	13	9	7	14	James C. Long.
Newark.....	Essex.....	11	94	50.3	+0.1	78	20	32	10	3.33	-0.39	1.62	1	0	12	7	5	18	sw. U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	99	94	51.0	+1.2	77	20	30	4†	3.25	-0.39	1.57	1	0	12	14	3	13	se. N. J. Experiment Station.
New Milford††.....	Bergen.....	12	30	.....	.....	.....	.....	.....	.....	3.64	+0.03	1.69	1	0	12	.....	.....	.....	Hackensack Water Co.
Newton.....	Sussex.....	769	65	48.6	+0.6	78	20	23	18	3.69	+0.33	0.90	31-1	T.	13	6	18	6	sw. Charles M. Wheeler.
Orangetown.....	Essex.....	140	8	.....	.....	.....	.....	.....	.....	3.50	.....	1.81	1	0	12	.....	.....	.....	County Engineer.
Paterson.....	Passaic.....	100	77	51.3	+0.7	75	20	31	4†	3.51	-0.08	1.49	1	T.	12	8	12	10	sw. Philip J. Del Vecchio
Pemberton.....	Burlington.....	60	19	52.0	+0.3	81	20	28	23	4.52	+1.29	1.97	1	0	12	8	13	9	nw. Charles A. Doehlert.
Phillipsburg.....	Warren.....	182	65	51.8	+2.3	78	21†	28	18	5.06	+1.72	1.22	13-14	0	13	9	9	12	sw. Town Engineer.
Plainfield.....	Union.....	120	60	50.4	+0.8	76	20	30	4	4.38	+0.61	1.62	1	0	11	6	9	15	sw. S. K. Pearson.
Plainsboro.....	Middlesex.....	110	7	.....	.....	.....	.....	.....	.....	2.42	.....	.....	.....	0	9	.....	.....	.....	Walker-Gordon Lab.
Pleasantville††.....	Atlantic.....	8	50	49.4	+0.3	76	6	24	23†	3.28	-0.26	1.69	1	0	8	9	7	14	s. N. J. Dept. of Conservation.
Rahway.....	Union.....	20	9	.....	.....	.....	.....	.....	.....	3.40	.....	1.55	1	0	9	11	6	13	sw. Louis Fontenelli.
Ridgefield.....	Bergen.....	80	31	50.1	+1.2	74	20	29	4	3.75	+0.38	1.70	1	0	12	9	8	13	nw. George P. Kirsten.
Ringwood.....	Passaic.....	0	.....	.....	.....	.....	.....	.....	.....	3.67	.....	1.06	1	0	13	10	4	16	..... No. Jersey Water Supply
Runnemede.....	Camden.....	42	0	52.2	.....	80	20	28	18	3.50	.....	1.57	31-1	0	11	9	10	11	sw. Henry D. Mosher
Runyon††.....	Middlesex.....	18	25	47.0	-1.4	70	1	22	11	3.29	-0.44	1.48	1	0	9	16	11	3	w. N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	4	51.1	.....	76	20	31	10†	3.95	.....	1.68	1	0	17	9	3	18	nw. Harold Scott.
Sandy Hook.....	Monmouth.....	22	50	49.2	+0.9	73	20	33	4†	3.16	-0.46	1.44	1	0	12	6	10	14	w. U. S. Coast Guard.
Somerville.....	Somerset.....	65	65	51.0	+1.4	78	20	28	11	3.64	+0.11	1.58	31-1	0	10	9	5	16	se. William E. Haver.
Sussex.....	Sussex.....	450	53	50.0	+1.4	77	20	25	11†	4.03	+0.55	1.10	11-12	T.	15	6	2	22	n. Marshall Hunt.
Swedesboro.....	Gloucester.....	75	2	.....	.....	.....	.....	.....	.....	2.85	.....	1.40	31-1	0	8	12	10	8	sw. E. F. Hurff Co.
Toms River.....	Ocean.....	33	27	.....	.....	.....	.....	.....	.....	3.80	-0.09	1.20	1-2	0	9	.....	.....	.....	Robt. F. Snyder.
Trenton.....	Mercer.....	66	76	51.3	+1.5	78	20	32	10	2.58	-0.26	1.31	1	1	11	6	8	16	s. SECTION CENTER USWB.
Trenton No. 2.....	do.....	105	18	51.4	+0.8	80	20	31	10	3.26	-0.38	1.62	1	0	11	.....	.....	.....	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	9	.....	.....	.....	(Vacant)
Vineland.....	Cumberland.....	110	68	.....	.....	.....	.....	.....	.....	4.13	+0.69	2.00	1	0	8	9	13	8	nw. Robert Jones.
Westfield.....	Union.....	135	9	.....	.....	.....	.....	.....	.....	3.74	.....	1.64	1	0	7	16	4	10	w. Town Engineer.
Woodcliff Lake††.....	Bergen.....	103	30	.....	.....	.....	.....	.....	.....	3.64	-0.03	1.55	1	0	11	.....	.....	.....	Hackensack Water Co.
Woodstown, 2 mi. N.....	Salem.....	16	12	50.2	.....	78	20	28	3	2.11	.....	1.02	31-1	0	7	8	9	13	..... Charles Clark.
New York, N. Y.....	.....	10	78	50.0	+0.6	74	20	30	10	3.38	+0.15	1.48	1-2	0	11	6	7	17	nw. U. S. Weather Bureau.
Philadelphia, Pa.....	.....	26	78	52.4	+0.3	78	20	34	10	3.54	+0.49	1.56	31-1	0	12	7	8	15	e. U. S. Weather Bureau
For the State.....	.....	.....	.....	50.4	+0.6	83	21	18	18	3.68	+0.07	2.24	31-1	T.	11	10	8	12	sw.

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T.. Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for April 1948

Stations	Drainage Basin	Day of month																														Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
Atlantic City ^{1†}	Coast	1.52	.02			T.	.01	T.	T.			.17	T.	.36	.69	.15		T.				T.			T.	.03		T.	.17	.01			3.13	
Bass River	do.																																3.42	
Belleplain	Tuckahoe	1.32	.06									.10	.10	.32	.10	.74									.16	.09			.25	.05	.03		3.60	
Belmar ²	Coast	1.85	.11				.03	.06	.02			.21	.04	.25	.84	T.	T.								T.	.19							3.60	
Belvidere	Delaware	1.90	.25									.58	.70	.13	.78	.22									T.	.29				.07	.06		4.08	
Berlin ³	Mullica	1.92	.35	T.					T.	T.			.40		.80	.44									.12					.06	T.		4.09	
Boonton ³	Passaic	1.35	.16	T.									.64	.31	.52	.59									.02	.11	T.		T.	.02	.07		3.76	
Bridgeton	Delaware	1.41	.13									.15	.06	.51	.24	.71							.05			.02	.11		.03	.25	T.		3.41	
Brooklawn	do.	1.53	.09			T.						.22	.06	.35	.77	.39									T.						.06		3.20	
Burlington	do.	1.63					.15						.32	.15	.40	.26										.23							3.41	
Canoe Brook ³	Passaic	1.75	.11					.01		T.			.86	.22	.53	.48										.01	.29				.04	.02	4.32	
Canton ²	Delaware	1.30	.34						T.	T.			.21	.01	.86	.53										.17	.08			.16			3.66	
Cape May ^{2†}	Coast	1.18	.02			T.						.10	.10	.85	.04	.71																	3.80	
Charlotteburg	Passaic	1.07	.07						.08			.13	.72	.15	.57	.75		.02				.05			T.	.11		.06	.07	.08			2.71	
Chatham ²	do.	1.68	.12	.01				.01		T.			.75	.25	.55	.36		.02				T.				T.				T.	.05		4.06	
Chatsworth	Coast	1.90	.11									*	.40	.15	*	1.02										.27							3.85	
Clayton	Delaware	1.97	.15			T.			T.	T.		.25	.10	.15	.75	.48									.02	.01				.14			4.02	
Clinton	Raritan	1.14	.24			.03			.01	T.		.54	.60	.05	.96	.06		.04				T.				.01	.11					T.		3.86
Culvers Lake	do.	.95	.08			.12						.37	.04	.23	.94	.05						.02				T.							3.94	
Elizabeth	Coast	1.68	.06	.01		.03			.01	.02		.40	.37	.06	.57	.25		.01				.02				.01	.32			.04	.03		3.87	
Essex Fells ³	Passaic	1.45	.90									.71	.28	.50	.47											.12					.02	.40	3.87	
Flemington	Raritan	1.02	.14			.05		.01				.33	.54	.03	.60	.22		.03				T.			.04	.14			.05	T.			4.83	
Freehold	do.	1.84	.15			.03		.06				.25	.13	.10	.54	.20										.12							3.20	
Hammoncton	Mullica	2.06	.13			.40						.35	1.50	.65												.10			.14	.23		5.56		
Hightstown	Raritan	1.57	.18			.06			T.	T.		.21	.16	.02	.55	.22				T.					.01	.14				T.	T.		3.12	
Indian Mills	Mullica	1.94	.19			.02						.22	.08	.13	.69	.37									T.	.14		T.	.06	T.			3.84	
Jersey City ²	Coast	1.29	.05			.03			.04			.25	.23	.21	.64		.01	T.								.16				.03			2.94	
Lakewood	Metedeconk																																	
Lambertville	Delaware	1.33	.08			.04		.01	T.			.54	.42	.03	.50	.08									.03	.12							3.18	
Layton	do.	1.08	.03			.15						.61	.94	.31	.83	.39		.56				.05			.03	.17					.10		5.26	
Little Falls ³	Passaic	1.35	.09	T.					.01			.66	.19	.51	.51			.01				.02			.01	.12						.04	3.57	
Long Branch ^{2†}	Coast	1.99	.16			.03	.02	.04				.24	.04	.23	.54	.06		T.							T.	.21			T.	.01			3.57	
Long Valley ³	Raritan	1.42	.24	.05								.75	.40	.46	.75							.05				.35				.05			4.54	
Manville ²	do.	1.70	T.			.03	T.					.60	.20	.12	.60			T.							T.	.20			T.				3.45	
Marlton	Delaware	1.50	.05	.25		.06			.01			.19	.30	.10	.85	.43									.22								4.00	
Mays Landing	Gt. Egg Harbor	1.70	.04			.01						.18	.04	.11	.26	.73		.01							.02	.02			.04	.15	.01		3.28	
Midland Park ²	Passaic	* 1.36										.73	.10		.98											.19						.02	3.42	
Millville (Arpt.) ^{2†}	Maurice	2.24	.21			T.	T.	T.	T.	T.		.11	.03	.62	.98	.03		T.				.04			.14	.10			.04	.10			4.60	
Moorestown ³	Delaware	1.17	.39	.01				.04		T.		.24	.78	1.06	.38										.01	.23			.07		T.		3.60	
Morris Plains	Passaic	1.70	.03	T.		.01		.01				.42	.78	.04	.75	.37						.05			.01	.17			T.	.02			4.36	
Newark ¹	Coast	1.62	.02			.01				T.		.51	.22	.12	.56	.02	T.					T.			T.	.15			.02	.07	.01		3.33	
New Brunswick	Raritan	1.51	.06			.05		.02	T.			.42	.35	T.	.40	.15									.01	.21			.02	.05			3.25	
New Milford ^{2†}	Hackensack	1.69	.03					.02				.37	.36	.07	.77	.02						.02				.21					.03	.05	3.64	
Newton ³	Delaware	.84	.06	.04	T.			.03				.88	.33	.63	.61		.03								.02	.15				.04	T.		3.69	
Orange ¹	Passaic	1.81	.02									.53	.24	.16	.58	.02										.14							3.50	
Paterson ²	do.	1.49	.17		T.			.02	T.			T.	.51	.30	.38	.40		.01				T.			T.	.02	.16			T.	.02	.03	3.51	
Pemberton	Delaware	1.97	.30			.02	.01					.17	.18	.15	.96	.42		.01							.03	.30				T.			4.52	
Phillipsburg	do.	1.07	.33			.04		T.		T.		.82	.70	.35	1.22	.09	.04	T.				T.	.14		.08	.10			T.	.08	T.	T.	5.06	
Plainfield	Raritan	1.62	.12			.02				T.		.68	.33	.28	.70	.10									T.	.01	.48			T.	.04	T.	4.38	
Plainsboro	do.	* 80				.03		.01				*	.75	.02	.73										T.	.08							2.42	
Pleasantville ³	Coast	1.25	.44			T.						*	.29		.39	.75									T.	.06		.01		.09	T.		3.28	
Rahway ^{2†}	Rahway	1.55	.05			.05						*	.77	*	*	.50										.48							3.40	
Ridgefield	Hackensack	1.70	.05			.02		.01				.43	.35	.04	.80	.10									.18					.05	.02		3.75	
Ringwood ³	Passaic	1.06	.05	.02			.01	.03				.82	.09	.60	.78			.03							.02	.14				T.			3.67	
Runnemede	Delaware	1.57	.28			.02		T.				.15	.21	.20	.82	.08		T.							.02	.10				.05			3.50	
Runyon	Coast	1.48	.14			.06		.06				.37	.27		.60	.14										.17							3.29	
Rutherford	Passaic	1.68	.06	.03		.01		.02				.54	.33	.04	.87	.04	*	.02		T.					.01	.16				.01	T.	.03	3.95	
Sandy Hook ^{2†}	Coast	1.44	.06			.05	T.	.06				.29	.11	.10	.48	.05										.01	.49			T.	.02		3.16	
Somerville	Raritan	1.58	.08			.06			T.			.42	.51	.01	.62	.12									T.	.21				.03	T.		3.64	
Sussex	Hudson	.73	.04	T.		.13		.02				.31	1.10	.24	1.00	.07		.04					.09			.02	.12				.08	.04	4.03	
Swedesboro	Delaware	1.40	.07			T.	T.			T.		.17	.14	.19	.53	.29									T.	.06							2.85	
Swedesboro No. 2	do.	1.49	.02			T.	T.			T.		T.	.45	.32	.62	.26	T.	.01							.02	.02				.02	T.		3.23	
Toms River	Coast	.60	1.20									.21	.32	.11	.72	.42										.12							3.80	
Trenton ^{1†}	Delaware	1.31	.02	T.		.03	T.	.01				.23	.05	.32	.42	.04	T.								.03	.22			T.	T.	T.	T.	2.68	
Trenton No. 2 ²	do.	1.62	.07			.05	T.																											

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ¹ Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ² Precipitation for period from midnight to midnight. ³ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. † Hourly amounts available. * Included in the next following measurement. T. Trace, or less than 0.01 inch. Time indicated here is 75th meridian, mean sun time.

Amounts in italics are interpolated. §§ Incomplete.

Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

[illegible]

Note: Evaporation determined by measuring amount returned to pan to maintain standard level, less precipitation.
record. ³ Observations taken in morning, and entered on preceding day. ** Pan overflowed. * Measurement included in next following

Daily Temperatures for April 1948

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum...	58	62	51	60	54	61	49	51	55	56	52	74	57	46	57	55	56	47	51	56	73	50	52	55	57	52	51	46	56	67	55.6
	Minimum...	47	43	38	32	45	49	44	43	38	32	44	49	42	42	43	42	42	40	42	48	45	43	39	46	46	44	40	37	45	42.5	
Belleplaine.....	Maximum...	65	65	53	60	70	71	66	54	54	55	59	70	69	50	58	61	55	53	63	72	76	65	62	68	66	62	57	47	56	67	61.6
	Minimum...	56	51	34	29	39	42	46	39	47	29	31	53	45	41	42	32	41	28	28	48	56	40	29	40	49	38	43	42	27	32	39.9
Belvidere.....	Maximum...	65	58	46	61	73	65	66	58	55	56	55	65	61	45	55	65	61	60	65	80	83	65	65	63	77	69	66	55	53	66	62.6
	Minimum...	56	37	34	28	36	49	46	45	41	30	31	51	44	33	39	31	36	29	39	46	50	37	34	47	50	40	43	40	42	41	40.2
Boonton/.....	Maximum...	61	57	44	60	69	67	64	54	49	53	61	65	50	43	54	63	53	54	58	75	68	62	66	63	74	66	61	54	54	64	59.5
	Minimum...	46	53	37	31	36	45	47	43	41	30	27	33	47	37	31	31	27	26	34	41	46	37	30	39	48	35	36	32	33	33	37.1
Bridgeton.....	Maximum...	65	67	51	61	75	72	66	57	54	56	55	75	63	49	58	65	55	60	68	81	71	65	70	66	70	66	64	47	55	66	63.1
	Minimum...	53	45	36	30	39	50	50	45	43	31	37	54	44	39	42	36	40	31	33	45	56	42	34	43	50	41	44	40	31	39	41.4
Burlington.....	Maximum...	65	65	68	69	71	71	63	57	56	55	60	71	66	53	55	67	65	59	67	81	78	68	65	65	72	76	68	53	56	68	65.1
	Minimum...	56	48	32	31	39	53	49	43	46	30	32	53	46	37	40	32	38	35	34	42	46	42	33	44	55	48	33	41	33	39	41.0
Canoe Brook/.....	Maximum...	61	58	46	60	72	68	63	53	52	54	61	65	51	43	56	60	55	52	59	76	70	62	67	64	71	62	57	59	55	66	59.9
	Minimum...	51	52	29	29	38	50	42	43	44	30	24	45	49	37	38	28	32	23	28	39	54	31	26	42	47	32	39	42	34	39	37.9
Cape May.....	Maximum...	63	59	53	60	67	67	58	50	55	53	53	69	62	49	56	56	57	56	57	63	67	60	59	65	65	59	55	48	55	63	58.6
	Minimum...	53	49	41	51	44	52	45	44	43	38	42	50	45	42	44	39	43	41	37	48	54	42	39	44	50	46	40	36	32	46	44.1
Charlotteburg.....	Maximum...	66	59	45	55	73	71	62	61	54	51	62	62	62	43	59	62	59	53	59	75	72	63	66	63	73	68	67	59	51	61	61.1
	Minimum...	50	40	33	28	33	46	45	40	39	27	23	43	40	36	35	26	33	21	29	38	40	30	27	44	52	29	37	37	38	39	36.2
Chatsworth.....	Maximum...	64	64	51	59	74	73	64	57	55	53	60	73	68	47	55	64	59	55	64	80	77	65	67	68	67	67	59	50	56	68	62.8
	Minimum...	54	50	35	26	34	53	46	43	46	30	26	53	36	36	40	28	39	25	28	42	54	31	24	31	48	31	34	39	27	32	37.5
Clayton.....	Maximum...	65	64	51	59	72	70	68	58	55	55	57	73	66	45	58	65	57	59	68	79	72	62	69	65	71	70	67	49	56	69	63.1
	Minimum...	57	49	37	30	39	54	50	45	43	32	36	54	45	38	41	33	39	29	32	46	55	40	32	44	54	40	43	41	30	38	41.6
Elizabeth.....	Maximum...	64	64	49	62	72	70	65	55	56	57	58	68	65	47	59	62	57	54	58	77	75	62	69	64	72	61	59	52	55	67	61.8
	Minimum...	50	46	35	28	37	53	50	43	45	30	30	46	45	38	39	32	38	35	50	42	54	42	31	43	53	42	44	47	36	39	41.4
Flemington.....	Maximum...	65	62	50	60	71	70	60	52	54	55	56	68	63	46	56	64	62	56	62	77	73	62	65	65	73	65	64	52	56	68	61.7
	Minimum...	57	45	35	31	33	60	44	44	43	35	30	52	45	38	40	30	38	40	31	42	50	36	27	45	52	44	42	41	32	38	40.8
Freehold.....	Maximum...	64	63	47	59	71	66	60	53	54	52	70	64	44	55	62	54	52	61	78	70	59	65	63	69	64	58	51	54	67	60	60.1
	Minimum...	54	46	35	29	38	51	46	41	42	29	31	50	43	38	38	32	35	32	30	46	54	40	31	44	51	41	43	41	33	40	40.1
Hammonton.....	Maximum...	72	65	54	68	74	72	66	64	55	56	60	74	65	46	54	68	61	57	68	80	74	61	69	68	72	69	65	48	59	69	64.4
	Minimum...	60	39	38	32	34	56	50	42	42	32	32	52	46	38	42	33	31	27	38	44	56	44	29	43	52	38	42	40	30	38	40.7
Hightstown.....	Maximum...	65	63	49	58	70	67	59	54	54	55	58	70	60	45	55	65	56	57	65	77	69	59	65	62	68	66	57	50	55	66	60.6
	Minimum...	57	45	36	30	40	53	48	42	43	30	28	53	44	38	39	31	37	29	31	46	54	38	29	44	50	40	42	41	31	39	40.3
Indian Mills.....	Maximum...	64	61	50	59	73	71	62	59	55	54	59	73	61	45	55	65	55	57	68	80	74	60	67	66	68	70	59	49	56	68	62.1
	Minimum...	57	46	32	30	36	56	46	43	41	31	30	55	45	38	41	27	38	24	28	44	53	35	24	44	49	37	42	41	26	36	39.2
Jersey City*.....	Maximum...	56	56	44	57	68	64	61	48	51	51	55	63	55	40	55	51	52	45	48	72	69	55	62	60	67	55	52	48	52	63	55.8
	Minimum...	50	40	34	31	43	52	47	42	37	30	42	55	40	35	38	42	38	37	40	48	48	41	47	45	42	41	42	41	42	45	41.9
Lakewood.....	Maximum...	64	62	48	59	71	66	64	54	55	55	56	67	64	46	55	64	62	57	65	79	74	62	65	64	72	65	64	53	56	67	61.8
	Minimum...	58	45	37	33	40	54	47	44	42	30	24	46	38	39	31	32	38	26	37	47	52	36	30	45	54	40	43	42	33	35	41.0
Layton.....	Maximum...	64	58	43	62	70	64	66	60	55	53	54	68	63	40	52	64	57	57	60	78	70	66	66	65	76	60	60	57	55	67	61.0
	Minimum...	54	40	32	25	30	45	32	42	38	25	20	48	40	35	36	26	33	18	36	40	48	28	27	43	52	28	32	38	37	49	35.9
Little Falls/.....	Maximum...	67	58	53	62	72	69	65	54	51	57	64	67	50	51	57	60	55	56	60	75	68	63	68	68	72	63	61	54	57	66	61.4
	Minimum...	48	53	37	31	45	55	48	42	44	30	29	40	47	37	38	31	37	28	33	41	56	38	32	45	54	36	42	40	41	44	40.7
Long Branch*.....	Maximum...	64	60	48	60	74	70	52	53	53	55	56	69	57	43	56	56	53	48	52	72	73	56	59	60	66	55	53	50	53	67	58.1
	Minimum...	47	42	36	31	44	55	44	41	37	31	32	53	44	39	39	33	39	37	36	46	45	37	32	46	44	42	44	38	34	41	40.3
Long Valley/.....	Maximum...	64	55	45	58	69	67	68	54	48	44	59	64	48	41	53	62	52	55	59	75	66	63	64	63	74	67	54	50	55	64	59.0
	Minimum...	55	51	33	25	32	42	42	48	42	28	25	48	45	36	36	28	34	25	37	40	45	31	28	44	52	33	40	39	35	37	37.7
Millville.....	Maximum...	65	61	51	58	72	71	61	57	55	55	58	76	60	49	57	63	54	56	65	78	74	62	67	67	69	66	57	46	55	68	61.8
	Minimum...	53	43	34	29	42	54	45	44	36	31	36	55	40	39	37	34	39	32	31	45	49	36	29	44	43	42	43	32	29	37	39.4
Moorestown*.....	Maximum...	65	60	48	58	71	68	64	55	54	54	58	71	57	42	55	66	54	57	66	78	69	60	68	65	70	69	59	50	55	67	61.1
	Minimum...	57	42	39	32	39	54	46	44	37	32	33	57	39	38	37	32	37	30	34	45	47	36	30	43	42	41	41	34	32	38	39.6
Morris Plains.....	Maximum...	64	62	49	60	71	70	62	61	53	53	55	65	65																		

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION

A. E. WHITE.

TRENTON, N. J.

VOL. LIII.

MAY 1948

THE LIBRARY OF THE

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UNIVERSITY OF ILLINOIS

GENERAL SUMMARY

The average temperature for May was slightly below normal. Three cool periods were experienced, one from the 1st to the 9th, the second from the 13th to the 16th, and the last from the 19th to the 23d. Only one warm spell occurred, lasting from the 10th to the 12th. During this period, Chatsworth recorded a temperature of 95°, the highest in the State for May since 1942.

This May was the wettest in New Jersey since 1894, and at many locations was the wettest on record. Six stations reported amounts in excess of 10 inches, nearly three times the normal amount for the month. The excessive precipitation held up field operations and planting, especially of corn, in most sections. On May 17th a severe thunderstorm with hail caused heavy damage in the South Plainfield-Bound Brook area. Losses in this section due to the hail were estimated at about \$50,000. Young plants were the principal sufferers, and the local spinach crop, ready for harvesting, was nearly a total loss. There was also considerable damage to glass in buildings, electrical signs, automobile roofs, and to several planes at Hadley Airport in South Plainfield. The storm was said to be the most severe locally for 50 years.

N. W. H.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 43 stations, was 60.0°, which was 0.6° below normal. The highest temperature was 95° at Chatsworth on the 11th, and the lowest, 25°, at Layton on the 2d. The highest monthly mean temperature was 63.4° at Burlington, and the lowest, 56.8° at Layton. The temperature departure from the normal for the year 1948, to date, for the State is -1.0°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 61 stations, was 8.06 inches, which was 4.44 inches above normal. The greatest monthly precipitation was 11.96 inches, at Mays Landing, and the least, 5.39 inches at Layton and Sussex. The greatest amount of precipitation in any 24 consecutive hours was 4.04 inches at Clinton on the 12-13th. The average for the Highlands was 7.09 inches; for the Red Sandstone Plain, 8.20 inches; Southern Interior, 8.35 inches; and for the Sea Coast, 7.79 inches. The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, +3.58 inches; Red Sandstone Plain, +3.54 inches; Southern Interior, +5.22 inches; Sea Coast, +5.76 inches.

DATES OF MISCELLANEOUS PHENOMENA.

THUNDERSTORMS: 3, 7, 12, 13, 14, 16, 17, 18, 21, 22, 24, 25, 26, 30, 31.

HAIL: 12, 17.

HEAVY FOG: 4, 7, 12, 16, 17, 18, 25, 26, 27, 28, 29, 30, 31.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

8

INOIS Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.22	9	29.31	21	15.7	40	e.	7	86	76	82	60	222
Long Branch.....	30.22	9	29.30	21	11.7	35	nw.	8	86	70*	80	52	230
Newark.....	30.20	9	29.31	21	.....	36	wnw.	18	78	62	71	.....	190
Trenton.....	30.21	9	29.28	21	9.4	28	w.	8	76	59*	.....	44	168

* Noon

COMPARATIVE DATA FOR MAY

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	57.3	90	29	2.74	0	.....	.....	.....	.....
1886.....	58.8	87	36	6.07	0	.....	.....	.....	.....
1887.....	63.3	94	35	1.37	0	6	.....	.....	.....
1888.....	58.6	90	26	4.92	0	16	.....	.....	.....
1889.....	62.3	94	32	4.09	0	12	.....	.....	.....
1890.....	60.7	87	33	4.24	0	12	.....	.....	.....
1891.....	59.5	93	28	2.97	0	9	.....	.....	.....
1892.....	60.1	90	30	5.04	0	13	8	13	10
1893.....	59.4	95	29	4.07	0	10	13	8	10
1894.....	61.4	93	30	7.72	0	13	11	8	11
1895.....	60.9	102	28	2.85	0	8	12	12	7
1896.....	65.3	98	29	3.21	0	10	12	12	9
1897.....	60.6	87	29	5.68	0	12	11	12	8
1898.....	58.5	93	29	7.00	0	18	8	8	15
1899.....	61.1	94	29	1.92	0	9	12	12	7
1900.....	60.9	98	26	4.71	0	10	13	7	11
1901.....	58.6	90	29	5.60	0	16	9	9	13
1902.....	60.3	95	29	2.04	0	7	15	11	5
1903.....	62.7	98	21	0.59	0	4	16	10	5
1904.....	62.8	97	31	2.60	0	8	17	9	5
1905.....	61.4	89	22	1.71	0	8	12	11	8
1906.....	61.0	94	24	4.21	0	10	16	8	7
1907.....	55.4	91	22	5.05	0	12	12	9	10
1908.....	61.6	95	29	7.10	0	13	9	10	12
1909.....	60.0	91	27	2.30	0	9	10	11	10
1910.....	60.0	94	27	2.54	0	12	10	10	11
1911.....	64.5	99	22	1.37	0	7	14	11	6
1912.....	62.0	92	31	4.09	0	11	11	11	9
1913.....	60.3	94	25	3.45	0	9	15	7	9
1914.....	63.1	98	30	2.93	0	10	14	9	7
1915.....	58.1	88	30	3.82	0	13	13	7	11
1916.....	61.1	90	33	3.48	0	12	12	11	8
1917.....	54.0	90	25	3.83	0	11	10	10	11
1918.....	64.6	93	31	4.94	0	12	14	10	7
1919.....	60.9	95	31	4.98	0	12	14	6	11
1920.....	57.4	89	26	3.00	0	10	15	8	8
1921.....	60.2	96	32	4.17	0	10	14	7	10
1922.....	63.0	90	23	3.84	0	8	18	6	7
1923.....	59.1	90	25	1.66	0	6	20	6	5
1924.....	56.8	87	25	5.69	0	17	12	7	12
1925.....	57.7	99	23	2.86	0	8	13	11	7
1926.....	59.1	90	26	2.58	0	9	18	9	4
1927.....	58.1	88	30	3.65	0	13	9	10	12
1928.....	58.0	93	27	2.23	0	12	12	9	10
1929.....	59.9	95	26	3.49	0	13	13	8	10
1930.....	62.7	98	31	2.75	0	9	17	7	7
1931.....	60.4	97	21	3.73	0	12	14	6	11
1932.....	60.5	94	29	2.98	0	8	16	8	7
1933.....	63.2	93	32	4.84	0	13	11	8	12
1934.....	62.3	98	28	4.63	0	11	17	6	8
1935.....	57.8	95	27	1.71	0	9	15	7	9
1936.....	63.1	97	28	2.78	0	7	20	7	4
1937.....	62.5	96	28	3.12	0	10	17	9	5
1938.....	59.2	89	26	3.52	0	12	10	9	12
1939.....	63.3	99	25	1.43	0	6	16	8	7
1940.....	59.7	92	28	6.29	0	15	8	9	14
1941.....	62.6	99	23	1.86	0	9	17	9	5
1942.....	64.3	97	25	2.41	0	7	14	9	8
1943.....	61.7	93	24	4.92	0	12	11	9	11
1944.....	65.3	94	28	1.67	0	8	14	9	8
1945.....	58.4	90	29	4.78	0	14	13	7	11
1946.....	60.8	91	26	6.63	0	14	11	8	12
1947.....	60.1	94	18	7.22	T.	15	11	9	11
1948.....	60.0	95	25	8.06	0	15	9	9	13
Period.....	60.6	102	21	3.62	0	11	13	9	9

Climatological Data for May 1948

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches					No. of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy	Cloudy		
Atlantic City.....	Atlantic	8	75	57.9	-0.2	79	21	46	7	8.80	+5.75	3.24	12-13	0	15	2	11	18	s.	U. S. Weather Bureau.
Belleplain.....	Cape May	49	54	61.8	+0.7	89	11	36	4	10.06	+6.74	2.20	13	0	16	8	12	11	s.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth	19	7							7.70		1.68	5	0	14	8	13	10	se.	City Water Dept.
Belvidere.....	Warren	289	56	61.4	+0.3	94	11	34	9	7.69	+4.01	2.80	13	0	13	15	3	13		Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden	70	7							8.68		3.10	30-31	0	10	18	3	10	s.	Samuel H. McCulley.
Boonton.....	Morris	280	58	57.1	-1.8	85	11	31	6	6.47	+2.68	1.74	13	0	17				ne.	J. C. Water Works.
Bridgeton.....	Cumberland	30	65	62.2	-1.4	89	11	38	1	10.83	+7.33	2.60	12-13	0	15	10	7	14	se.	Bennett K. Matlack.
Brooklawn.....	Camden	30	7							5.89		1.54	12-13	0	10					C. D. Scott.
Burlington.....	Burlington	12	62	63.4	+0.3	93	12	40	4	6.57	+2.77	1.78	5	0	11	8	10	13	se.	Public Service E. & G. Co.
Canoe Brook†.....	Essex	180	18	58.4	-0.6	88	12	29	9	10.12	+6.61	1.99	25	0	18	12	7	12	ne.	N. J. Dept. of Conservation.
Cape May.....	Cape May	17	60	61.2	+2.9	80	12	40	9	7.35	+4.47	2.20	13-14	0	14	7	18	6	s.	Richard F. Umfrid, Jr.
Charlotteburg†.....	Passaic	760	56	57.6	-0.3	88	12	29	2	7.56	+3.64	2.27	12-13	0	15				w.	Newark Water Dept.
Chatham.....	Morris	185	44							9.66	+5.94	1.92	30	0	17	11	6	14	.....	Edward P. Molitor.
Chatsworth.....	Burlington	90	8	61.0		95	11	30	9	9.10		2.11	13	0	10	5	18	8	s.	Alfred L. Stevenson.
Clayton.....	Gloucester	120	35	62.0	0.0	91	11	38	9	8.96	+5.77	2.05	13	0	15	8	11	12	se.	Harry P. Campbell.
Clinton.....	Hunterdon	300	5							9.05		4.04	12-13	0	15	14	4	13	sw.	L. W. Klockner.
Culvers Lake†.....	Sussex	760	47							6.73	+3.32	1.82	12	0	13					L. S. Depue.
Elizabeth.....	Union	33	69	60.5	-1.4	89	12	33	9	9.56	+5.83	2.57	12-13	0	16	11	5	15	ne.	Union County Park Comm.
Flemington, 2 mi. N.E.....	Hunterdon	134	62	60.6	-1.0	90	11	29	9	8.80	+5.13	2.70	12-13	0	14	10	10	11	w.	Donald C. Young.
Freehold.....	Monmouth	194	44	60.7	-1.3	89	11	37	9	9.60	+6.00	2.42	25	0	14	10	5	16	e.	Moreau Plaut Co.
Hammonton.....	Atlantic	95	42	61.8	-1.6	93	11	36	4	9.41	+5.56	2.36	13	0	13	13	5	13	sw.	J. G. Wilson.
Hightstown.....	Mercer	100	55	60.0	-1.1	90	11	34	9	6.71	+2.99	1.61	12-13	0	12	7	14	10	e.	James R. Pickering.
Indian Mills†, 2 mi. W.....	Burlington	100	59	60.6	-1.4	93	11	32	9	9.70	+6.45	3.15	30-31	0	14	6	15	10	s.	Edward Entwistle.
Jersey City.....	Hudson	135	50											0		12	4	15	se.	J. C. Water Dept.
Lakewood.....	Ocean	54	44	60.2	-0.6	90	11	32	9	8.09	+4.76	1.80	12-13	0	14	5	14	12	ne.	R. W. Holman.
Lambertville.....	Hunterdon	75	61	61.6	+0.4	91	11	33	9	9.37	+5.47	2.00	29-30	0	15	11	8	12	ne.	George Bailey.
Layton†, 3 miles NW.....	Sussex	480	47	56.8	-1.1	90	11	25	2	5.39	+2.09	1.64	12-13	0	14	9	6	16	sw.	A. M. Depue.
Little Falls.....	Passaic	157	45	59.9	-0.7	89	12	34	2	7.21	+3.40	2.36	12-13	0	18	8	12	11	w.	Passaic Valley Water Co.
Long Branch.....	Monmouth	34	40	58.1	-0.8	90	12	37	9	9.07	+5.83	1.78	30	0	17	8	11	12	s.	Storm Warn. Display Sta.
Long Valley.....	Morris	660	18	57.8	-1.2	87	11	29	10	7.69	+3.99	2.55	12-13	0	13	11	8	12	s.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington	90	7							7.01		1.82	13	0	14	11	7	13	sw.	David Griscom.
Mays Landing.....	Atlantic	50	4							11.96		3.19	13	0	17	16	4	11	sw.	Elmer Earle.
Millville, 2 mi. SW.....	Cumberland	60	8	61.6		89	11	26	9	8.60		1.92	12-13	0	15	2	15	14	se.	Millville Airport.
Moorestown.....	Burlington	62	85	60.1	-1.3	88	11	36	9	5.80	+2.02	1.01	12-13	0	15				.....	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris	400	7	57.5		87	13	29	9	7.56		2.18	12-13	0	18	12	6	13	.....	James C. Long.
Newark.....	Essex	11	94	60.0	-1.4	91	12	38	9	8.12	+4.20	2.31	12-13	0	15	5	10	16	se.	U. S. Weather Bureau.
New Brunswick.....	Middlesex	99	94	60.6	-0.1	86	12	36	9	6.63	+2.84	1.52	12-13	0	16	13	4	14	se.	N. J. Experiment Station.
New Milford†.....	Bergen	12	30							7.28	+3.92	1.71	25	0	15				.....	Hackensack Water Co.
Newton.....	Sussex	769	65	57.8	-1.5	90	11	31	9	6.21	+2.52	1.67	29-30	0	14	4	19	8	sw.	Charles M. Wheeler.
Orange†.....	Essex	140	8							8.92		2.47	25	0	13				.....	County Engineer.
Paterson.....	Passaic	100	77	60.4	-1.2	92	12	40	1	6.98	+2.82	1.50	29-30	0	17	4	14	13	nw.	Philip J. Del Vecchio.
Pemberton.....	Burlington	60	19	61.6	-2.1	92	11	32	9	8.09	+4.94	1.76	30-31	0	15	10	10	11	se.	Charles A. Doehlert.
Phillipsburg.....	Warren	182	65	59.1	-2.1	93	11	33	9	9.10	+5.51	3.31	12-13	0	14	8	10	13		Town Engineer.
Plainfield.....	Union	85	60	59.3	-1.1	88	12	34	9	9.17	+5.36	1.99	30	0	14	7	10	14	sw.	S. K. Pearson.
Plainsboro.....	Middlesex	110	7							8.00				0	12				.....	Walker-Gordon Lab.
Pleasantville†.....	Atlantic	8	50	59.4	-0.2	83	10	31	9	8.38	+5.35	2.00	12-13	0	15	10	8	13	ne.	N. J. Dept. of Conservation.
Rahway.....	Union	20	9							10.91		2.40	30	0	13	12	3	16	ne.	Louis Fontenelli.
Ridgefield.....	Bergen	30	31	59.2	-1.1	90	12	37	9	7.18	+3.63	1.80	12-13	0	14	9	8	14	se.	George P. Kirsten.
Ringwood.....	Passaic		0							7.89		2.34	13	0	20	10	5	16		No. Jersey Water Supply
Runnemede.....	Camden	42	0	61.2		90	11	36	9	6.57		1.70	12-13	0	12	10	9	12	ne.	Henry D. Mosher.
Runyon†.....	Middlesex	18	25	57.2	-2.7	86	12	27	2	5.97	+2.38	1.32	12-13	0	10	15	7	9	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen	51	4	60.0		91	12	37	9	8.20		2.03	12-13	0	17	8	4	19	nw.	Harold Scott.
Sandy Hook.....	Monmouth	22	50	58.3	-0.1	84	12	44	4	6.04	+2.32	1.09	5	0	16	3	12	16	w.	U. S. Coast Guard.
Somersville.....	Somerset	65	65	60.8	+0.1	89	11	31	9	7.89	+4.24	2.48	12-13	0	14	8	6	17	e.	William E. Haver.
Sussex.....	Sussex	450	53	59.3	-0.5	90	11	30	1	5.39	+1.78	1.05	7	0	18	8	5	18	ne.	Marshall Hunt.
Swedesboro.....	Gloucester	75	2							7.43		2.00	12-13	0	13	12	8	11	sw.	E. F. Hurff Co.
Toms River.....	Ocean	33	27							9.35	+5.26	1.95	5	0	11					Robt. F. Snyder.
Trenton.....	Mercer	56	76	61.1	0.0	90	11	42	9	8.03	+4.95	1.71	12-13	0	17	2	12	17	s.	SECTION CENTER USWB.
Trenton No. 2.....	do.	105	18	61.4	-1.4	91	11	37	9	8.86	+5.33	1.73	5	0	16				.....	Edward H. Ristow.
Tuckerton.....	Ocean	23	55											0					.....	(Vacant)
Vineland.....	Cumberland	110	68							8.29	+4.75	2.20	12-13	0	13	18	5	8	sw.	Robert Jones.
Westfield.....	Union	135	9							9.46		2.14	25	0	17	14	4	13	n.	Town Engineer.
Woodcliff Lake†.....	Bergen	103	30							6.14	+2.73	1.47	13	0	16				.....	Hackensack Water Co.
Woodstown, 2 mi. N.....	Salem	16	12	60.9		87	11	38	8	7.85		1.19	21-22	0	12	10	11	10		Charles Clark.
New York, N. Y.....		10	78	59.0	-1.6	84	12	42	9	8.82	+5.58	2.70	12-13	0	15	6	11	14	s.	U. S. Weather Bureau.
Philadelphia, Pa.....		26	78	62.2	-0.7	88	11	45	9	6.88	+3.62	1.83	4-5	0	14	4	12	15	s.	U. S. Weather Bureau.
For the State.....				60.0	-0.6	95	11	25	2	8.06	+4.44	4.04	12-13	0	15	9	9	13	ne.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T., Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for May 1948																																		
Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ¹	Coast	T.	.06	1.02	.01	.75	T.	.42	T.				12.3	12	.01		.66	1.07	T.		T.	.04				.01	.20		T.	T.	.50	.81	8.80	
Bass River	do.	.26	.82			* 1.32	.59							* 3.27			* 1.74					.06	.60	T.			.25		T.	T.	.42	.98	11.57	
Belleplain	Tuckahoe			1.05	.05	1.30	.06	.20						2.20	1.33	.06	.11	1.59	.15			.15					.38	.08		T.	T.	.42	.98	10.06
Belmar ²	Coast		.06	.54		1.68	T.	.75	T.					21	1.55	.20	T.	.44	.24	T.		.13	T.			.16	T.	.01	T.	T.	1.35	.38	7.70	
Belvidere	Delaware			.59		.82		1.00	.03					10.2	80	.33		.48	.09	T.		.22				.01				.09	1.13	T.	7.69	
Berlin ³	Mullica			.72		.80	.32		.54					1.00	.80			1.00				.30						T.			10.3	10	8.68	
Boonton ³	Passaic	.04		.11	.16	.08	.31	T.	.72					1.74	.89	.12		.38	.17	.05		.10				.26	.34	T.			.95	.05	6.47	
Bridgeton	Delaware		.97	T.	1.77	T.	.75	.03						2.60	.06		.62	1.13				.16	.07			.26	.10	.09			1.27	.95	10.83	
Brooklawn	do.		.49	T.	1.45		.84	T.						1.54		.08	.70					.12				.08					* .59	5.89		
Burlington	do.		.72		1.66	.12	.86	T.						1.45	.30	T.	.30	.47				.08				.30	T.				.31	T.	6.57	
Canoe Brook ³	Passaic	.02		.16	.22	.10	.47		.80					1.96	1.15	.08		.56	.40	.04		.13	.02			.51	1.48				1.82	.20	10.12	
Canton ³	Delaware		.65	1.6	1.39	.03	1.63	.09						1.55	.51	T.		1.85			.19	.12					T.	.03			.25	2.24	10.69	
Cape May ¹	Coast		.52		1.45		* .09							.47	1.73		* 1.15	.14				.04				*	.17				.23	1.36	7.35	
Charlotteburg	Passaic			.16		.65	.08	.82	.04					2.27	.27	.14	.45	.13	.27	.08		.10				.18					1.92	.20	9.66	
Chatham ²	do.	.02			.25	.08	.43		.80					1.90	1.29	.08		.49	.35	.02		.11				.31	1.31				1.92	.20	9.66	
Chatsworth	Coast		.75		1.13	T.	.49							2.11			* 1.04					.40				.41	T.				* 2.77	9.10		
Clayton	Delaware		.73		1.57	.01	.62	.01						2.04	.01		.52	.54				.17			.83	T.	.01	.07			1.04	.79	8.96	
Clinton	Raritan		.45		1.00	.02	.92	.02						T. 4.04	.02	.14	.68	.11	T.			.14				.08					T. 1.25	.10	9.05	
Culvers Lake	do.	.05		T.		.80	T.	1.11	T.				1.82	1.20	.13	.06	.46	.03	.03			.11			.03	T.					.90		6.73	
Elizabeth	Coast		.40		.80	.01	.67	.04						2.57	.02	.07	.55	.90	.04			.08	.01			.83					2.28	.29	9.56	
Essex Falls ³	Passaic		.20		14	.15	.50		.68					2.00	.83	.80	.30	.10				.10	.20			.36	.46				1.74	.14	8.70	
Flemington	Raritan	T.		.63		1.04	.07	1.14	T.		T.			2.69	.01	.27	.58	.19	.05			.09	T.			.29					1.56	.19	8.80	
Freehold	do.		.70		1.04	.06	.55	T.						1.92	.08	.31	.69	.34				.06				2.37	.05				3.31	1.0	9.60	
Hammon	Mullica		.65	T.	1.12		.43							2.36	.12		* .91	T.				.10	.73			.75	.16				* 2.08	9.41		
Hightstown	Raritan		.80		1.16	T.	.47	T.						1.61	T.	.20	.81	.36	.02			.08	T.			.55	T.				T. .60	.05	6.71	
Indian Mills	Mullica		T. 1.04		1.35	.02	.43	T.						2.05	T.	T.	.33	.47	T.			.10	.25			.45	.05	.01			T. 1.78	1.37	9.70	
Jersey City ²	Coast																																	
Lakewood	Metedeconk		.06	.64		1.68	T.	.75	T.					1.80	.06	.10	.25	.60	T.				.17			.17						1.10	.77	8.09
Lambertville	Delaware		.60		1.58	.05	1.00	.01						1.66	T.	.22	1.08	.50	.05			.11	T.			.29	.02				2.00	.20	9.37	
Layton	do.					.74		.84	.06					1.64	.20	.08	.46	.13	.03			.22			T. .32						.53	.11	5.39	
Little Falls ³	Passaic	.05		.11	.08	.28	.38		.61					1.84	.52	.08		.30	.04	.11		.10	.01			.45	.62				1.51	.12	7.21	
Long Branch ²	Coast		.07	.49		1.27		1.04						58	1.57	.18	.01	.74	.40			.10	.01			.66	.01				1.78	.18	9.07	
Long Valley ³	Raritan				.41	*	.65		.93					2.55	.90	.20	.70	.60	.10			.10				.05					1.12	.08	7.69	
Manville ²	do.	.02		.30		.65	.90							43	1.85	.10	.70	.40				.12				1.10					2.00	.05	8.62	
Marlton	Delaware		.79		1.37	.05	.65							1.82		.02	.30	.40				.08	.14			.09	T.	.01			.75	.54	7.01	
Mays Landing	Gt. Egg Harbor		.74	.10	.20		.37	.01						3.19	.66		.83	.76	.01			.11		.03		1.74	.15			.04	1.12	.90	11.96	
Midland Park ²	Passaic		.07		.67		.63							3.6	1.53	.08		.39	.03			.13				1.39					1.32		6.60	
Millville (Arpt.) ²	Maurice	.02		.96	.10	.47		.37						1.01	.26		.67	.05				.13				.01	.04	T.			1.9	.52	2.1	
Moorestown ³	Delaware		.41	.11	.66	.84	.02	.79						1.01	.26		.67	.05				.10	T.			T.	.09	T.	.01			.10	.68	5.80
Morris Plains	Passaic	.03		.12	.19	.06	.37	*	1.04					2.18	.87	.12		.46	.44	.05		.08				.29	.19				1.03	.04	7.56	
Newark ¹	Coast	.03	.34		.86	T.	.71	.01						79	1.54	.06	T.	.68	.52	.03		.09	T.			.70	T.				T. 1.74	.02	8.12	
New Brunswick	Raritan	.01		.45	.80	.10	.68	.05						1.52	.09	.13	.23	.48	.04			.10				.72	T.	T.			T. .76	.47	6.63	
New Milford ²	Hackensack		.06		.59	.01	.63	.03						27	1.57	.03	.46	.10				.10	.02			1.71					1.63	.07	7.28	
Newton ³	Delaware	.06		.03	.06	.16	.28		.90					1.28	.74	.10	.70	T.		.05	.14					.04					1.67	T.	6.21	
Orange ²	Passaic		.26	.12	.65		.70		.66					51	1.84	.03	.50	.42	.01			.09				2.47					1.43	.01	8.92	
Paterson ²	do.	.04		.05	.12	.08	.46	T.	.66					1.29	.80	.17		.31	.05	.02		.11	T.			.39	.83	T.	T.		1.50	.10	5.98	
Pemberton	Delaware		.73		1.09	.16	.33							1.51	.01		.10	.76	.08			.07	.09	T.		.54	T.	.01			.85	1.76	8.09	
Phillipsburg	do.	T. 04		.59		1.02		.95	T.					59	3.31	.32	.04	.62	.10			.13			T.	.05					15	1.19		9.10
Plainfield	Raritan	T.		.35		.72	T.	.75	.03					35	1.81	T.	.07	.58	.39	.01		.10				1.91					T. 1.99	.11	9.17	
Plainsboro	do.		.80		1.45	T.	.80	T.						2.00			.78	.29				.14				1.02	.12				* .60	8.00		
Pleasantville ³	Coast	T.	.77	.10	.48	.57	T.	.52						2.00	.80		1.19	.11				.08	.02								.02	1.50	8.38	
Rahway ²	Rahway		.39		.91		.70																											

Daily Temperatures for May 1948

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*.....	Maximum... 71	56	53	55	54	55	62	64	60	62	65	65	67	57	69	60	67	68	68	69	79	65	63	66	66	61	62	62	66	64	63.6	
	Minimum... 49	49	48	44	49	49	46	50	48	54	56	56	49	49	52	52	55	55	50	48	52	46	55	56	57	57	55	55	52	59	52.2	
Belleplain.....	Maximum... 71	66	60	66	61	62	67	68	74	86	89	86	80	64	68	70	80	72	67	68	80	78	75	76	77	69	76	78	80	80	68	73.0
	Minimum... 40	43	43	36	51	46	46	49	36	60	60	65	57	48	48	47	59	53	48	43	51	45	47	48	52	53	57	57	54	63	62	50.5
Belvidere.....	Maximum... 70	74	67	71	65	72	67	52	77	86	94	91	70	56	71	79	75	67	66	70	77	66	80	79	70	75	82	82	80	75	70	73.1
	Minimum... 42	37	47	45	47	42	46	43	34	55	58	60	55	46	48	46	55	52	45	43	49	43	42	52	59	52	51	59	60	64	63	49.7
Boonton/.	Maximum... 67	69	60	69	51	70	50	51	72	83	85	85	57	51	68	58	75	66	63	68	74	61	76	75	61	71	77	78	80	76	67	68.3
	Minimum... 36	33	40	40	43	31	46	39	36	43	56	50	55	47	40	41	49	55	47	37	43	45	40	44	48	52	55	55	56	61	60	45.9
Bridgeton.....	Maximum... 72	73	56	68	60	67	63	64	75	87	89	87	80	65	69	70	78	68	65	67	81	74	76	78	68	65	78	80	81	74	68	72.5
	Minimum... 38	42	49	43	50	46	46	41	59	59	62	53	49	49	51	58	54	50	49	45	45	49	53	59	59	59	59	56	59	64	63	51.8
Burlington.....	Maximum... 68	73	72	72	72	72	67	60	78	85	92	93	92	73	70	73	80	69	69	74	79	77	79	80	77	67	78	82	83	79	69	75.9
	Minimum... 45	42	47	40	43	44	40	42	45	58	59	60	55	49	48	47	55	55	45	50	40	48	52	58	59	58	57	57	63	65	51	51.0
Canoe Brook /.....	Maximum... 69	69	60	71	56	69	79	61	74	86	83	88	54	54	71	70	74	66	66	70	77	63	77	73	60	69	75	77	81	74	65	70.4
	Minimum... 34	42	42	35	47	37	45	29	45	53	49	53	48	50	44	40	48	47	39	48	38	39	45	56	54	55	56	56	63	61	60	46.5
Cape May.....	Maximum... 62	62	56	59	60	65	64	67	78	72	80	73	68	66	67	75	67	67	65	71	72	72	72	74	69	72	71	70	76	68	68.4	
	Minimum... 30	29	45	35	45	37	44	44	32	45	51	48	54	44	41	36	49	50	43	42	46	40	36	45	45	47	52	52	52	62	59	44.4
Charlotteburg.....	Maximum... 64	71	60	70	68	70	65	50	75	86	85	88	75	54	67	66	73	67	65	65	72	75	73	69	70	75	75	75	80	75	69	70.7
	Minimum... 30	29	45	35	45	37	44	44	32	45	51	48	54	44	41	36	49	50	43	42	46	40	36	45	45	47	52	52	52	62	59	44.4
Chatsworth.....	Maximum... 70	70	58	70	62	65	65	61	75	89	95	90	85	68	70	78	68	68	88	80	73	78	77	72	67	77	79	82	76	65	74.4	
	Minimum... 38	35	47	31	45	39	44	37	30	61	50	60	52	45	47	48	52	44	39	50	41	45	47	52	64	57	52	54	60	60	47.5	
Clayton.....	Maximum... 72	73	65	70	54	67	60	62	76	88	91	88	80	63	71	70	81	68	68	69	80	74	77	78	75	64	79	82	84	71	69	73.2
	Minimum... 42	41	48	40	47	46	45	47	38	60	58	62	52	48	49	49	59	52	49	43	50	44	47	50	57	58	53	57	63	64	50	50.8
Elizabeth.....	Maximum... 67	69	62	70	60	70	62	54	71	86	84	89	81	57	71	68	73	68	69	72	80	74	79	76	68	69	75	77	81	74	67	71.7
	Minimum... 41	38	46	38	47	41	46	46	33	59	59	58	52	47	46	44	56	50	46	45	49	44	43	50	56	58	57	57	63	60	49.3	
Flemington.....	Maximum... 70	71	68	68	66	68	67	55	76	85	90	86	85	57	70	72	75	71	65	69	78	78	77	78	75	70	76	79	80	76	71	73.3
	Minimum... 41	32	46	36	47	41	44	44	29	53	54	61	52	47	41	40	52	54	43	48	42	44	45	56	53	53	56	56	64	61	47.8	
Freehold.....	Maximum... 68	68	56	69	61	67	64	55	73	85	89	86	82	56	67	75	74	67	88	78	78	75	76	76	68	65	75	77	82	70	65	71.9
	Minimum... 44	39	45	38	47	42	45	46	37	57	57	61	50	46	49	56	52	46	44	48	43	48	48	50	58	56	55	56	60	60	49.5	
Hammononton.....	Maximum... 73	72	54	71	62	66	62	64	81	89	93	90	81	63	70	73	83	67	68	70	81	75	74	80	73	65	75	83	85	74	68	73.7
	Minimum... 40	37	47	36	48	45	45	47	44	48	59	64	52	47	46	48	59	51	48	44	49	41	47	51	54	57	53	56	57	63	62	49.8
Hightstown.....	Maximum... 68	70	58	69	58	68	57	54	75	84	90	85	74	57	60	67	78	64	65	68	77	73	77	79	67	65	75	78	82	72	66	70.6
	Minimum... 44	36	46	38	47	42	45	46	34	58	57	62	51	47	45	46	58	51	46	44	48	43	46	49	55	57	58	55	56	62	61	49.5
Indian Mills.....	Maximum... 71	71	52	69	55	66	58	60	78	88	93	89	78	61	70	70	81	67	67	70	80	64	78	79	68	64	76	82	83	71	66	71.8
	Minimum... 39	35	48	34	47	44	45	47	32	61	56	63	51	47	45	46	59	53	46	43	50	43	47	49	55	58	58	55	56	62	61	49.5
Jersey City*.....	Maximum... 46	42	46	47	47	44	45	46	41	60	58	58	49	45	46	51	54	52	48	47	49	45	50	53	55	55	57	59	58	61	60	50.8
	Minimum... 68	68	56	69	61	67	64	55	73	89	90	90	84	57	67	65	72	67	67	70	80	76	78	75	68	63	74	75	80	75	65	71.2
Lakewood.....	Maximum... 44	39	45	38	47	42	45	46	32	61	59	61	50	47	45	43	52	51	47	42	50	44	47	47	55	56	56	55	54	62	60	49.1
	Minimum... 69	72	67	70	65	68	64	56	77	86	91	87	81	58	72	71	75	69	67	69	79	77	77	78	74	68	78	79	81	75	69	73.2
Lambertville.....	Maximum... 42	36	47	41	48	39	46	47	33	59	57	60	53	48	45	48	62	60	52	48	42	50	44	45	48	58	56	55	57	59	64	50.0
	Minimum... 65	71	65	63	53	70	60	50	73	87	90	83	65	58	69	66	72	65	62	68	76	63	77	75	65	75	80	80	75	72	66	69.6
Layton.....	Maximum... 28	25	47	40	45	35	44	42	30	40	52	55	52	45	46	37	51	45	39	39	46	37	36	50	55	44	42	56	52	53	54	43.9
	Minimum... 75	73	62	71	55	72	58	55	75	87	81	89	55	55	70	68	73	69	66	71	78	82	79	75	65	72	77	80	82	75	68	71.4
Little Falls/.....	Maximum... 38	34	35	40	48	42	47	45	35	61	57	51	53	47	48	42	53	53	47	46	48	45	43	42	55	53	56	57	57	62	60	48.4
	Minimum... 64	61	56	62	52	65	54	56	68	86	70	90	64	55	68	58	67	65	66	70	79	65	72	70	59	62	67	70	74	69	66	66.1
Long Branch*.....	Maximum... 47	40	47	39	48	46	46	44	37	63	53	63	49	47	47	48	53	53	48	46	49	44	49	50	54	57	56	56	57	58	59	50.1
	Minimum... 66	70	57	69	51	69	48	73	56	84	87	85	56	54	68	57	64	63	68	62	75	74	62	70	76	78	82	81	72	68	68.4	
Long Valley /.....	Maximum... 36	30	41	38	47	43	45	41	50	29	53	50	55	46	47	40	55	50	44	36	47	37	48	55	53	50	54	55	63	60	47.1	
	Minimum... 71	71	57	68	55	66	65	64	73	87	89	88	72	67	69	70	80	69	67	68	81	73	75	76	73	68	78	83	81	80	67	72.6
Millville (Airport)....	Maximum... 47	44	47	38	48	45	45	44	36	60	57	63	50	48	48	50	59	54	47	41	50	45	48	50	56	58	58	58	54	63	60	50.7
	Minimum... 70	71	53	68	52	67	52	58	76	83	88	85	69	58	69	68	78	65	66	68	78	62	75	78	63	65	77	83	8			

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24 NEW JERSEY SECTION

A. E. WHITE.

TRENTON, N. J.

VOL. LIII. JUNE 1948 No. 6

GENERAL SUMMARY

Temperature for June averaged practically normal. The month was rather cool until the last week which was considerably warmer than normal and the warmest of the season to date. The hottest day at nearly all stations was the 29th when readings in the upper 90's were registered at many stations. The coolest weather was during the first week with some readings in the 30's on the 6th.

While not nearly so wet as May, rains and thunderstorms were frequent throughout the month and precipitation for the State averaged 138 percent of normal. It was heaviest in the Northeast and least in the South. With abundance of soil moisture and adequate sunshine, crops made excellent growth. Strong winds were registered in Coastal areas on the 3d, 24th and 30th, but no great damage is believed to have been done. Precipitation for the period April-June this year averaged 153 percent of normal in this State.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 44 stations, was 68.9°, which was 0.2° below normal. The highest temperature was 98° at two stations on the 29th, and the lowest, 35°, at Layton on the 6th. The highest monthly mean temperature was 72.0° at Burlington, and the lowest, 65.6° at Long Valley. The temperature departure from the normal for the year 1948, to date, for the State is -0.9°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 63 stations, was 5.28 inches, which was 1.45 inches above normal. The greatest monthly precipitation was 11.56 inches at Essex Fells, and the least, 2.79 inches at Berlin. The greatest amount of precipitation in any 24 consecutive hours was 2.92 inches at Flemington on the 19-20th. The average for the Highlands was 5.53 inches; for the Red Sandstone Plain, 6.06 inches; Southern Interior, 4.30 inches; and for the Sea Coast, 4.97 inches. The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, +4.24 inches; Red Sandstone Plain, +5.63 inches; Southern Interior, +5.75 inches; Sea Coast, +7.22 inches.

DATES OF MISCELLANEOUS PHENOMENA

THUNDERSTORMS: 6, 7, 8, 9, 11, 12, 13, 15, 19, 20, 23, 24, 25, 27, 28, 29, 30.
HAIL: 7, 27. HEAVY FOG: 9, 11, 12, 13, 14, 19, 22, 23, 24, 27, 28.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.25	22	29.48	8	13.5	42	ne.	3	84	76	82	51	27
Long Branch.....	30.25	22	29.44	8	8.4	33	sw.	30	83	66*	73	47	34
Newark.....	30.25	22	29.44	8	7.3	42	nnw.	24	81	61	71	17	17
Trenton.....	30.24	22	29.48	8	7.3	26	n.	20	79	57*	....	45	8

* Noon

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	.01 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	68.7	97	39	1.79	0	10	11	13	6
1886.....	67.1	91	41	3.38	0	10	14	9	7
1887.....	68.2	97	42	6.77	0	10	10	12	8
1888.....	70.8	99	39	2.59	0	6	11	11	8
1889.....	69.9	91	40	3.73	0	10	10	11	9
1890.....	70.7	95	42	3.59	0	7	11	13	6
1891.....	69.7	102	38	2.92	0	5	14	9	7
1892.....	72.4	98	44	3.85	0	11	10	12	8
1893.....	69.7	103	40	2.95	0	8	10	11	9
1894.....	70.6	102	35	2.28	0	9	14	11	5
1895.....	71.7	103	39	3.24	0	10	11	11	8
1896.....	68.1	96	37	5.46	0	10	12	10	8
1897.....	66.1	95	35	3.38	0	10	10	13	7
1898.....	70.1	100	38	2.10	0	8	14	12	4
1899.....	72.3	103	38	2.50	0	7	15	10	5
1900.....	70.4	97	39	3.08	0	8	12	12	6
1901.....	70.0	103	35	1.67	0	5	18	8	4
1902.....	67.5	99	37	6.57	0	11	14	11	5
1903.....	64.0	92	37	7.68	0	15	6	10	14
1904.....	68.6	100	34	3.13	0	12	13	10	7
1905.....	68.3	96	35	3.43	0	10	11	12	7
1906.....	70.4	98	38	4.48	0	12	11	11	8
1907.....	64.7	96	31	4.41	0	10	12	10	8
1908.....	69.9	99	35	2.32	0	4	16	12	2
1909.....	70.0	99	36	3.26	0	12	9	10	11
1910.....	66.9	95	34	5.17	0	13	9	10	11
1911.....	68.9	97	40	5.36	0	14	9	12	9
1912.....	68.0	98	33	1.94	0	8	9	12	9
1913.....	69.1	98	31	1.80	0	5	19	8	3
1914.....	68.5	98	35	2.66	0	7	14	9	7
1915.....	67.0	95	37	3.12	0	11	13	10	7
1916.....	64.7	87	36	4.20	0	13	10	9	11
1917.....	68.9	95	40	4.27	0	12	13	10	7
1918.....	66.3	96	32	3.43	0	8	15	9	6
1919.....	69.5	99	38	3.16	0	8	16	7	7
1920.....	68.4	98	38	6.18	0	12	13	9	8
1921.....	70.4	100	33	3.23	0	8	18	7	5
1922.....	71.1	95	39	6.31	0	15	12	9	9
1923.....	72.5	106	37	2.08	0	7	18	8	4
1924.....	66.8	95	30	4.20	0	13	11	11	8
1925.....	73.6	103	36	3.10	0	9	17	9	4
1926.....	64.9	97	31	2.60	0	11	12	9	9
1927.....	65.4	97	31	3.16	0	10	15	9	6
1928.....	66.6	93	36	6.75	0	15	10	9	11
1929.....	69.5	98	33	3.11	0	9	15	9	6
1930.....	70.8	98	30	4.17	0	8	16	8	6
1931.....	69.3	101	40	4.84	0	10	16	7	7
1932.....	69.3	98	30	3.68	0	10	13	8	9
1933.....	71.0	105	32	2.79	0	9	17	8	5
1934.....	72.6	103	38	3.68	0	7	16	9	5
1935.....	68.9	96	38	4.64	0	13	14	8	8
1936.....	69.1	99	38	4.93	0	12	12	7	11
1937.....	70.5	99	41	4.66	0	13	11	9	10
1938.....	67.2	96	29	7.79	0	13	11	9	10
1939.....	70.8	99	35	3.55	0	10	12	9	9
1940.....	68.6	95	32	3.28	0	10	12	9	8
1941.....	69.4	98	37	5.09	0	9	15	7	8
1942.....	69.8	96	41	3.11	0	11	11	9	10
1943.....	74.2	102	43	3.24	0	9	17	6	7
1944.....	70.4	100	33	4.08	0	10	12	16	8
1945.....	69.9	100	30	4.30	0	13	11	10	9
1946.....	68.1	99	33	5.25	0	11	12	8	10
1947.....	67.6	96	35	3.71	0	10	13	9	8
1948.....	68.9	98	35	5.28	0	15	8	11	11
Period.....	69.1	106	29	3.83	0	10	13	10	7

Climatological Data for June 1948

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City.....	Atlantic.....	8	75	68.2	+1.6	90	25	53	6	4.21	+1.17	1.55	16	0	15	7	6	17	s.	U. S. Weather Bureau.
Belleplain.....	Cape May.....	49	54	70.4	+1.0	95	29	44	6	6.03	+2.84	2.39	16-17	0	18	9	10	11	sw.	Mrs. Edward C. Hoffman.
Belmar.....	Monmouth.....	19	19	70.0	+0.4	96	29	43	6	5.51	+1.20	1.20	27	0	13	5	22	3	se.	City Water Dept.
Belvidere.....	Warren.....	289	56	70.0	+0.4	96	29	43	6	5.04	+0.72	1.17	24	0	14	9	15	6	...	Miss C. S. Hixson.
Berlin, 1 mile W.....	Camden.....	70	7	66.6	-1.2	94	29	41	6	2.79	+0.78	0.78	18	0	7	15	10	5	...	Samuel H. McCulley.
Boonton.....	Morris.....	280	58	71.2	-1.0	94	29	47	6	5.28	+1.48	0.88	25	0	17	...	...	...	sw.	J. C. Water Works.
Bridgeton.....	Cumberland.....	30	65	71.2	-1.0	94	29	47	6	3.05	-0.61	0.90	16	0	8	14	4	12	sw.	Bennett K. Marlack.
Brooklawn.....	Camden.....	30	7	72.0	+0.6	97	29	45	6	3.23	+1.33	1.33	19	0	10	...	...	...	sw.	C. D. Scott.
Burlington.....	Burlington.....	12	62	67.3	-0.5	95	29	38	6	3.61	-0.41	1.22	12-13	0	10	9	12	9	sw.	Public Service E. & G. Co.
Canoe Brook II.....	Essex.....	180	18	67.3	-0.5	95	29	38	6	6.97	+2.63	2.03	24	0	19	10	8	12	ne.	N. J. Dept. of Conservation.
Cape May.....	Cape May.....	17	60	70.8	+2.4	92	30	53	6	3.55	+0.48	1.22	16	0	12	12	16	2	nc.	Richard F. Unfrid, Jr.
Charlotteburg II.....	Passaic.....	760	56	65.8	+0.1	93	29	40	6	4.45	+0.09	0.77	7	0	17	4	4	22	w.	Newark Water Dept.
Chatham.....	Morris.....	185	44	67.6	...	95	28	39	6	6.13	+1.95	1.36	25	0	17	15	6	9	...	Edward P. Molitor.
Chatworth.....	Burlington.....	90	8	67.6	...	95	28	39	6	3.76	+1.22	1.22	19-20	0	10	4	14	12	sw.	Alfred L. Stevenson.
Clayton.....	Gloucester.....	120	35	71.2	+1.2	96	24	44	6	4.29	+0.57	1.75	19-20	0	18	9	15	6	sw.	Harry P. Campbell.
Clinton.....	Hunterdon.....	300	5	69.1	-1.5	97	29	43	6	6.70	+1.49	1.49	19	0	16	12	6	12	sw.	L. W. Klockner.
Culvers Lake II.....	Sussex.....	760	47	68.8	-1.4	94	29	40	6	5.66	+0.92	1.28	20	0	14	...	...	...	sw.	L. S. Depue.
Elizabeth.....	Union.....	38	69	69.1	-1.5	97	29	43	6	6.96	+3.20	1.15	24-25	0	18	11	1	18	ne.	Union County Park Comm.
Flemington, 2 mi. NE.....	Hunterdon.....	134	62	68.8	-1.4	94	29	40	6	6.86	+2.92	2.92	19-20	0	17	12	10	8	w.	Donald C. Young.
Freehold.....	Monmouth.....	194	44	69.1	-1.6	96	29	44	6	5.64	+1.83	1.39	12-13	0	14	10	6	14	sw.	Moreau Plant Co.
Hammonton.....	Atlantic.....	95	42	70.5	-1.3	98	29	42	6	4.04	+0.19	1.47	20	0	8	9	9	12	sw.	J. G. Wilson.
Hightstown.....	Mercer.....	100	55	68.6	-0.7	95	29	42	6	5.76	+1.76	1.65	12-13	0	16	4	20	6	sw.	James R. Pickering.
Indian Mills II, 2 mi. W.....	Burlington.....	100	59	69.4	-0.8	96	29	40	6	4.76	+0.54	1.22	19	0	15	5	19	6	w.	Edward Entwistle.
Jersey City.....	Hudson.....	135	50	68.4	-0.7	95	24	40	6	5.80	+2.11	1.37	19	0	20	9	13	8	se.	J. C. Water Dept.
Lakewood.....	Ocean.....	54	44	68.4	-0.7	95	24	40	6	4.10	+0.01	1.25	19	0	15	3	15	12	se.	George G. Waddill.
Lambertville.....	Hunterdon.....	75	61	69.4	-0.3	94	29	42	6	6.45	+2.37	2.10	19-20	0	18	11	12	7	sw.	George Bailey.
Layton II, 3 miles NW.....	Sussex.....	480	47	66.2	-0.1	92	29	35	6	5.67	+1.40	0.94	27-28	0	16	13	7	10	sw.	A. M. Depue.
Little Falls.....	Passaic.....	157	45	68.6	-0.8	96	29	43	6	7.38	+3.21	2.87	7-8	0	19	6	16	8	w.	Passaic Valley Water Co.
Long Branch.....	Monmouth.....	34	40	68.0	-0.1	94	24	47	6	6.08	+2.18	1.52	12-13	0	17	5	16	9	s.	Storm Warn. Display Sta.
Long Valley.....	Morris.....	660	18	65.6	-2.0	92	29	40	6	5.19	+0.64	1.16	19	0	15	9	17	4	sw.	Arthur Barkman.
Marlton, 1 mile W.....	Burlington.....	90	7	70.4	...	96	26	43	6	3.68	+0.89	0.89	18-19	0	15	9	11	10	sw.	David Grissom.
Mays Landing.....	Atlantic.....	50	4	70.4	...	96	26	43	6	3.88	+1.36	1.36	16	0	14	15	7	8	sw.	Elmer Earle.
Millville, 2 mi. SW.....	Cumberland.....	60	8	70.4	...	96	26	43	6	3.78	+1.15	1.15	16	0	11	9	1	20	sw.	Millville Airport.
Moorestown.....	Burlington.....	62	85	69.0	-1.3	94	29	43	6	4.30	+0.53	1.41	18-19	0	15	...	...	...	sw.	Japanese Beetle Laboratory
Morris Plains, 1 mi. W.....	Morris.....	400	7	67.5	...	92	29	39	6	5.95	+1.68	1.68	25	0	15	13	8	9	...	James C. Long.
Newark.....	Essex.....	11	94	69.4	-0.5	97	29	48	6	6.19	+2.30	1.44	19-20	0	19	2	11	17	sw.	U. S. Weather Bureau.
New Brunswick.....	Middlesex.....	99	94	69.2	-0.2	94	29	44	6	6.68	+2.88	1.95	19-20	0	16	8	11	11	se.	N. J. Experiment Station.
New Milford II.....	Bergen.....	12	30	65.8	-2.2	93	29	42	6	5.72	+1.79	1.57	7	0	17	...	...	...	sw.	Hackensack Water Co.
Newton.....	Sussex.....	769	65	65.8	-2.2	93	29	42	6	5.56	+1.24	1.29	19-20	0	15	5	20	5	sw.	Charles M. Wheeler.
Orange II.....	Essex.....	140	8	70.3	+0.2	98	29	49	6	5.76	+2.98	2.21	7	0	19	3	17	10	ne.	County Engineer.
Pateron.....	Passaic.....	100	77	69.8	-2.2	95	29	42	6	3.36	-1.27	1.22	19-20	0	17	7	13	10	s.	Philip J. Del Vecchio.
Pemberton.....	Burlington.....	60	19	69.8	-0.9	95	29	43	6	7.61	+3.72	2.19	7	0	15	6	15	9	...	Charles A. Doehliert.
Phillipsburg.....	Warren.....	182	65	68.4	-0.7	95	29	40	6	6.68	+2.52	1.59	24	0	17	4	14	12	sw.	Town Engineer.
Plainfield.....	Union.....	85	60	68.4	-0.7	95	29	40	6	6.68	+2.52	1.59	24	0	17	4	14	12	sw.	S. K. Pearson.
Plainboro.....	Middlesex.....	110	7	69.4	+0.4	90	24	40	6	6.58	+1.66	22-23	0	10	...	...	...	...	sw.	Walker-Gordon Lab.
Pleasantville II.....	Atlantic.....	8	50	69.4	+0.4	90	24	40	6	3.74	+0.28	1.23	17	0	11	9	10	11	s.	N. J. Dept. of Conservation.
Rahway.....	Union.....	20	9	68.3	-0.7	95	29	43	6	6.95	+1.29	1.29	19	0	16	8	4	18	sw.	Louis Fontenelli.
Ridgefield.....	Bergen.....	80	31	68.3	-0.7	95	29	43	6	4.65	+0.51	1.31	23-24	0	15	5	15	10	s.	George P. Kirsten.
Ringwood.....	Passaic.....	0	0	69.8	...	97	29	43	6	5.76	+1.20	20	0	19	10	5	15	...	sw.	No. Jersey Water Supply
Rummede.....	Camden.....	42	0	69.8	...	97	29	43	6	4.96	+1.56	19	0	15	9	10	11	sw.	Henry D. Mosher.	
Runyon II.....	Middlesex.....	18	25	67.4	-1.5	97	29	36	6	5.00	+0.98	1.52	19-20	0	12	13	8	9	w.	N. J. Dept. of Conservation.
Rutherford.....	Bergen.....	51	4	69.2	...	96	29	45	6	4.87	+1.40	19	0	19	1	10	19	sw.	Harold Scott.	
Sandy Hook.....	Monmouth.....	22	50	68.8	+1.0	92	29	55	6	6.05	+2.27	2.48	20-21	0	18	0	17	13	w.	U. S. Coast Guard.
Somerville.....	Somerset.....	65	65	69.1	-0.2	95	29	39	6	6.56	+2.72	1.65	19-20	0	14	6	4	20	sw.	William E. Haver.
Sussex.....	Sussex.....	450	53	67.8	+0.1	94	29	45	17	5.23	+1.07	0.89	14-13	0	18	10	4	16	sw.	Marshall Hunt.
Swedesboro.....	Gloucester.....	75	2	69.8	...	96	29	50	6	4.35	+1.96	19-20	0	12	10	13	7	w.	E. F. Huff Co.	
Toms River.....	Ocean.....	33	27	69.8	+0.3	96	29	50	6	4.04	+0.23	1.65	19	0	13	...	...	...	sw.	Robt. F. Snyder.
Trenton.....	Mercer.....	56	76	70.4	-0.9	97	29	46	6	5.90	+2.81	2.11	12	0	14	2	14	14	s.	SECTION CENTER USWB.
Trenton No. 2.....	do.....	105	18	70.4	-0.9	97	29	46	6	6.27	+1.54	2.42	12-13	0	16	...	...	...	sw.	Edward H. Ristow.
Tuckerton.....	Ocean.....	23	55	69.8	...	96	29	50	6	4.90	+2.81	2.11	12	0	14	2	14	14	s.	(Vacant)
Vineland.....	Cumberland.....	110	68	69.8	...	96	29	50	6	2.99	-0.56	1.05	16	0	11	12	12	6	s.	Robert Jones.
Westfield.....	Union.....	135	9	69.8	...	96	29	50	6	6.82	+1.26	24	0	19	13	5	12	n.	sw.	Town Engineer.
Woodcliff Lake II.....	Bergen.....	103	30	70.0	...	93	29	46	5	4.65	+0.96	1.05	19	0	17	...	...	...	sw.	Hackensack Water Co.
Woodstown, 2 mi. N.....	Salem.....	16	12	70.0	...	93	29	46	5	6.24	+1.70	19-20	0	16	10	11	9	...	sw.	Charles Clark.
New York, N. Y.....	...	10	78	68.6	-0.2	92	29	52	6	6.85	+3.52	1.80	19-20	0	18	1	13	16	s.	U. S. Weather Bureau.
Philadelphia, Pa.....	...	26	78	71.4	0 0	95	29	54	3	4.88	+1.64	1.27	30	0	17	3	12	15	s.	U. S. Weather Bureau.
For the State.....	...	...	...	68.9	-0.2	98	29	35	6	5.28	+1.45	2.92	19-20	0	15	8	11	11	sw.	...

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T. Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

‡ Post-office address as follows:—Culvers Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

Daily Precipitation for June 1948

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic City ¹	Coast	T.	.85	.04	.01		.55	.02	.02				.02		.05	1.55		T.	.19	.03		T.	.05	.05			.45			.03		4.21	
Bass River	do.																															6.03	
Belleplain	Tuckahoe	.08	.45	.12	.10		.12	.33	.25				.35		.15	2.25	.14		.37	.30			.05	.05		.37	.05	.50	.05			5.51	
Belmar ²	Coast	T.		T.		T.	.51	T.	T.				.25	.42	.01	.18	.23	T.	.97	.41		.17	.28	.05		.37	.05	1.20	T.			5.04	
Belvidere	Delaware						.40	.21	.10				.13	.40		.15			.73	.29		.30	.31	1.17				.35	.37		.13		2.79
Berlin ³	Mullica	T.	T.		.30		.15							.52				T.	.72	.78					.12			.20				3.05	
Boonton ³	Passaic	T.		.04		.03	.04	.66	T.	.13	T.	.08	.58	.08	.02		.90		T.	.68	.64			.39	.24	.88			.05	.70	.04		5.28
Bridgeton	Delaware		.35		T.		.43		.33				.24			.21	.14	.09		.23	.10											3.23	
Brooklawn	do.			.32				.28					.11	.22		.30	.26		.20	.77	.38		.05				.11					6.97	
Burlington	Passaic	.03				.04	.13	.24		.06		.13	.90	.07	.06	.01	.01		1.40	.63		.02	.37	.33	2.03			.42	.09			3.39	
Canoe Brook ³	Delaware		T.	.32			.02	.16	.19				.05			.17	.44	.90		.39	.18						.30		.44			6.97	
Canton ²	Coast	.05	.35	.15	.03		.26	.57	.12			T.				1.22	T.			.10	.45											3.39	
Cape May	Passaic				.10		.13	.64		.18			.65	.31			.04	.10		.62	.40		.21	.42	.05	.72		.28	.16	.04		3.55	
Charlotteburg	do.	T.		.01		.02	.12	.36		.04			.10	.67	.06	.04			1.09	.55		.09	.37	.77	1.36			.02	.50	.05		6.13	
Chatsworth	Coast		.35		.07		.78	T.								.17	.52	T.		1.02	.20		.09	T.			.35	.26				3.76	
Clayton	Delaware	.01	.14	.11	.01		.23	.03					.02	.03		.07	.65		T.	1.64	.11		.12			.41		.43	.03	.23	.02	1.29	
Clinton	Raritan						.10	.18	.03				.83			.21	.04		1.49	.64		.20	.25	.01	.32		.62	.39	1.29	.10		6.70	
Culvers Lake	do.				.06		.72	.15	.20				.06	.59		.12	.09			.60	1.28		.31		.05	.30		.80	.42		T.	5.66	
Elizabeth	Coast		.02	.04		.25	.13	.36	.05	.02			.80	.41	.20	.40			1.07	.98		.30	.45		1.15		.73		.10			6.96	
Essex Fells ³	Passaic	.10		.50			.71	3.37		.60										.78	.46		*	.42	.21	1.42			.68	.50		11.56	
Flemington	Raritan		.02	.04		.06	.33	.02					.44	T.		.31	.16		1.07	1.85		.35	.25	.14	.71		.47	.02	.94	.03		6.86	
Freehold	do.			.04		.05	.23	.08					1.39			.20	.27		.01	.69	.70		.20	.39		.02		1.37	T.			5.64	
Hammononton	Mullica		.26	T.	T.		.60					T.	T.			.14	.82	T.	.05	T.	1.47						.16					4.04	
Hightstown	Raritan	T.	.03		.03		.53	.03	.01		T.					.43	.27		.02	.70	.70		.21	.26		.12		.74		.03		5.76	
Indian Mills	Mullica	T.	.30	.36	.03		.15		T.	T.			T.	.13		.12	.56		T.	1.22	.26		.06		.05	.01		.62	.10		.79		4.76
Jersey City ²	Coast		.01	T.	.03		.27	.05	.02	.03	.06	.90	.30	T.		.05	.02		1.37	.48		.18	.16	.36	.29		.86	.05		.31		5.80	
Lakewood	Metedeconk	.05	.02	.03	.01		.68	T.	.01				.50		.33	.24		T.	.80	.45		.17	.42	.05			.34					1.10	
Lambertville	Delaware		T.	.04	.01		.10	.65	.05		T.		.75	.02	.47	.26		.01	.82	1.28		.16	.10	.07	.04		1.57		.05	T.		6.45	
Layton	do.			.09		.66	.08	.09					.57		.02					.51	.82		.35	.69	.14	.03	.13	.32	.94		.25	5.67	
Little Falls ³	Passaic	.01		.01	.02	.02	1.27	.02	.05			.04	.81	.01					.71	.62			.37	.27	1.44		.08	.16	.07			7.38	
Long Branch ²	Coast		.02	.1	.01		.32	.40	.01				1.05	.46		.12	.24		T.	.88	.64		.33	.23	.02		.15	.01		1.18		6.08	
Long Valley ³	Raritan	.07		.10		.03		.72		.32			.06	.38	.12					1.46				.30	.22	.66		.38	.27			5.19	
Manville ²	do.		T.		.03		1.80			.10	.40	.12				.20	.15			1.15	1.40		.20	.17	1.10		.42	.84		.20		8.28	
Marlton	Delaware		.13	.35	.01		.05	.37		.05			.33		.12		.19	.58		.89	.32						.20	.18		.01		3.68	
Mays Landing	Gt. Egg Harbor	.03	.50	.31	.02		.65	.12	.03							T.	1.31	.05	T.	.37	.09					.15	.83	.07				3.88	
Midland Park ²	Passaic					.77		.07					.13	.59		.07			.85	.67		.11	.50	1.03			.24	.19	.02			5.24	
Millville (Arpt.) ²	Maurice	.02	.23	.01	.01		.54	T.					T.	T.		.15			1.15					.42			.02	.85	.02			4.30	
Moorestown ³	Delaware	T.	T.	.19	T.	.02	.02	.13	T.	T.			.50	.01	.42	T.	.41			.53							.17	T.	.03	.85	.02		4.30
Morris Plains	Passaic		.02	.02		.09	.89	T.	.15				.12	.58		.04	T.		.85	.42		.28	.32		1.68		.47		.02			5.95	
Newark ¹	Coast		.01	T.	.04		.23	.01	.05	.02	.05		.94	.27	T.	.05	.01		1.27	.44		.20	.21	1.25			.75	.06		.33		6.19	
New Brunswick	Raritan	T.		.01	.05		.32	.20		T.			.1	.90		.31	.10	T.	.01	1.75	1.95		.20	.43		.25	.27	.75	.18			6.68	
New Milford ²	Hackensack			.05		1.57	.05	.04		.06			.42	.02						1.12	.20		.10	.37	1.08			.16	.19	.01	.10		5.72
Newton ³	Delaware				.06		.17	.40		.04			.19	.25	.04	.05				1.21	.29		.03	.54	.37	.54		.87				5.56	
Orange ¹	Passaic		.02	.04		.26	.04	.14	.01	.06			.57	.11		.02			1.15	.16		.23	.42	1.56			.70	.06	.01	.20		5.76	
Paterson ³	do.	.12		T.	.01	.03	.15	2.06	.01	.07	T.		.04	.75	.01	T.	.01	T.		.83	.54	T.	T.	.21	.42	1.31		.65	.31	.22		7.15	
Penlton	Delaware	T.	.04	.07	.02		.04	.24	.06	.13			.1	.27	T.	.28	.57	T.	T.	* 1.22		.20	.01		.07		*	.14	T.			3.36	
Phillipsburg	do.		T.			.2	.19	.15	.14				.15	.31		.32	.02		1.21	.12		.33	.25	.36			.47	.25		.34		7.61	
Plainfield	Raritan		T.	.07	.06		.23	.03	T.	.06	T.		.33	.91		.17	.11		1.15	1.26		.35	.28	.01	1.58		.24	.14	T.			6.58	
Plainsboro	do.					.72	T.						.37		.48				.01	1.11	1.14		*	1.66	.38		.71					6.68	
Pleasantville ³	Coast	.43		.95		.01	.02	.41								T.	1.23	T.	.14					.05	.08		.40	.02				3.74	
Rahway ²	Rahway		T.	T.		.04	.30		.10		.04	.50	.48		.01	.18			1.29	1.20		.28	.32	1.20			.50	.08		.43		6.95	
Ridgefield	Hackensack			.09		.23	.17	.12	.03	.05			.68		.02	T.		T.	.78	.50		.11	.27	1.31	T.		.19	T.	.10			4.65	
Ringwood ³	Passaic			.10	.01	.11	.52	.05	.23																								

Daily Temperatures for June 1948

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Atlantic City*	Maximum	69	69	61	61	76	67	68	78	77	71	77	79	79	69	73	69	75	70	75	69	76	72	71	79	90	80	75	81	82	80	73.9
.....	Minimum	59	59	55	55	58	53	62	62	58	58	60	65	60	58	63	55	54	63	65	61	60	64	65	65	71	70	70	69	74	72	62.4
Belleplain	Maximum	71	80	73	66	75	75	80	82	82	75	87	85	80	77	82	80	76	78	83	83	82	80	81	93	93	87	85	90	95	93	81.6
.....	Minimum	59	55	54	54	57	44	55	65	55	50	55	64	64	55	52	52	48	57	63	61	60	61	62	67	69	62	67	70	74	73	59.1
Belvidere	Maximum	82	86	84	86	73	77	80	81	76	86	83	84	80	84	80	78	81	82	77	64	93	86	89	85	92	96	90	88	84	87	82.5
.....	Minimum	57	51	53	53	59	43	53	61	55	53	49	60	62	53	59	60	45	51	61	59	51	60	60	61	67	61	65	68	67	70	57.6
Boonton /	Maximum	80	85	77	79	71	73	78	78	69	73	81	81	73	79	76	68	77	76	78	80	80	64	63	88	87	86	76	89	94	87	78.2
.....	Minimum	55	49	50	51	55	41	50	55	54	55	49	55	60	52	54	57	48	47	55	58	54	59	57	56	55	60	63	64	65	67	55.0
Bridgeton	Maximum	75	82	70	73	76	75	80	81	77	76	83	85	80	78	82	74	77	76	82	76	81	79	83	93	90	87	88	88	94	92	81.1
.....	Minimum	60	59	56	54	58	47	60	64	56	57	57	64	65	56	60	56	51	60	63	60	55	61	63	67	69	68	72	73	73	73	61.2
Burlington	Maximum	78	83	82	84	79	78	77	74	79	79	84	85	85	82	82	81	82	74	82	79	82	82	89	96	90	89	90	92	97	96	83.6
.....	Minimum	64	67	65	60	62	45	52	61	63	61	69	70	63	57	58	54	52	58	58	57	56	58	62	51	65	64	67	69	70	70	69.5
Canoe Brook /	Maximum	80	84	74	79	73	74	80	81	72	70	83	82	71	81	78	68	79	77	79	80	82	82	92	88	87	78	90	95	90	90	79.1
.....	Minimum	53	49	49	50	58	38	49	58	51	53	59	58	61	55	53	56	42	46	59	58	52	56	58	60	65	58	63	65	63	68	55.5
Cape May	Maximum	68	78	72	64	72	72	70	62	75	74	79	84	84	75	75	74	76	75	79	75	72	77	76	82	86	86	85	85	91	92	77.7
.....	Minimum	60	58	58	56	59	53	59	65	62	63	61	65	66	56	62	59	66	63	64	62	64	63	66	68	69	78	72	73	73	74	63.8
Charlotteburg	Maximum	73	83	82	80	77	69	76	78	77	68	83	80	72	78	77	74	75	76	88	78	78	75	63	90	88	85	81	88	93	89	79.1
.....	Minimum	52	47	45	47	52	46	56	50	50	43	57	58	58	43	54	52	45	41	47	56	49	52	55	57	55	60	63	70	66	66	52.5
Chatsworth	Maximum	73	81	74	75	75	80	82	71	73	82	84	75	80	79	78	76	74	82	75	82	73	75	93	86	87	85	85	94	91	91	80.3
.....	Minimum	50	48	49	43	48	39	53	55	45	53	67	58	60	55	52	55	47	54	54	50	43	48	62	63	75	65	66	70	71	70	54.9
Clayton	Maximum	77	84	78	77	76	77	81	84	84	84	83	87	78	81	83	82	79	82	78	84	75	81	96	92	90	89	92	90	90	90	82.9
.....	Minimum	60	57	55	52	56	44	58	65	68	52	55	60	65	56	56	57	50	57	63	59	54	61	69	65	70	68	66	70	71	70	59.6
Elizabeth	Maximum	77	84	75	77	75	76	80	82	77	67	85	84	79	80	78	76	80	76	80	77	83	77	65	91	89	87	78	91	97	92	80.4
.....	Minimum	57	52	55	52	61	43	54	60	56	54	52	61	60	55	54	60	52	60	57	56	61	58	60	69	62	65	66	66	70	70	57.8
Flemington	Maximum	78	84	78	79	79	73	80	79	77	78	82	83	80	78	79	79	77	76	80	78	83	80	64	91	88	87	83	92	94	93	81.1
.....	Minimum	52	50	51	50	65	40	63	58	53	49	47	58	63	53	53	59	45	50	59	58	54	59	55	61	67	61	64	65	64	68	56.6
Freehold	Maximum	75	80	72	75	72	75	80	81	74	70	83	82	78	79	79	78	77	75	80	79	82	81	65	91	87	82	92	96	93	93	80.2
.....	Minimum	57	53	56	54	58	44	58	55	54	54	64	60	54	54	55	55	48	55	61	57	55	59	61	69	64	62	67	71	71	71	58.0
Hammoncton	Maximum	74	82	76	75	76	78	83	83	75	78	85	89	81	84	78	75	78	78	83	75	83	79	80	96	88	91	88	92	98	93	82.5
.....	Minimum	59	54	54	53	58	42	58	56	57	54	54	61	63	61	54	54	49	58	61	58	60	60	60	70	66	60	70	63	65	65	58.5
Hightstown	Maximum	75	80	71	79	74	73	86	80	74	72	82	83	73	79	78	75	77	75	80	76	82	74	60	91	87	88	84	91	95	90	79.5
.....	Minimum	57	51	54	54	60	42	54	61	54	54	61	61	56	55	55	47	54	69	57	56	58	55	61	67	62	64	67	68	70	70	57.7
Indian Mills	Maximum	74	83	70	74	74	76	81	82	73	75	83	85	77	80	81	72	77	82	76	83	73	77	94	89	91	87	90	90	91	91	80.6
.....	Minimum	59	50	53	53	59	40	56	63	53	54	50	59	64	56	55	55	47	56	62	58	52	60	60	64	69	64	67	70	68	69	58.2
Jersey City*	Maximum	75	75	71	69	74	75	80	82	79	68	84	83	74	74	76	74	77	74	80	78	83	79	68	95	93	86	79	90	95	92	79.2
.....	Minimum	58	49	59	53	59	40	56	64	54	54	59	60	60	55	52	55	48	52	62	58	55	59	59	61	61	61	64	63	65	72	57.5
Lakewood	Maximum	77	83	77	77	77	76	81	79	78	76	81	82	79	79	79	79	76	79	79	76	82	80	69	91	87	88	85	99	99	99	80.7
.....	Minimum	58	50	51	52	60	42	56	60	54	53	53	60	65	57	57	55	46	52	61	59	55	64	59	62	68	65	68	67	69	70	58.0
Lambertville	Maximum	82	85	80	84	75	75	72	79	71	73	81	81	73	80	78	77	78	79	76	81	79	70	62	90	86	84	75	89	92	88	79.2
.....	Minimum	54	43	47	52	62	35	47	54	47	52	48	58	58	45	57	53	38	44	58	55	47	52	55	58	63	56	62	63	63	60	53.3
Little Falls /	Maximum	81	84	78	80	74	74	80	81	65	76	84	82	75	79	78	75	78	77	80	81	80	64	72	92	89	86	75	91	90	90	80.0
.....	Minimum	55	50	51	53	60	43	52	61	55	57	52	61	59	56	55	59	55	48	60	54	58	60	58	64	58	61	58	61	60	73	57.1
Long Branch*	Maximum	74	75	68	68	74	72	75	81	68	67	82	80	66	74	76	65	74	73	81	71	81	73	93	94	87	84	78	90	92	92	76.7
.....	Minimum	59	58	59	55	59	47	55	61	56	57	55	63	57	54	56	55	50	56	63	56	57	59	59	65	69	68	68	68	68	73	59.4
Long Valley /	Maximum	77	82	74	78	71	73	76	78	70	76	81	81	70	78	75	65	76	78	79	80	82	68	85	85	85	77	89	92	92	92	77.7
.....	Minimum	55	48	47	49	48	40	48	56	51	50	46	55	58	48	54	45	46	54	58	50	56	57	58	62	56	63	65	63	67	67	53.1
Millville (Airport)	Maximum	74	84	66	72	76	75	79	82	76	75	82	86	79	79	82	69	77	77	84	77	85	82	83	95	89	90	90	90	94	94	81.5
.....	Minimum	60	57	54	53	55	43	61	58	50	52	55	65	60	56	56	51	49	58	63	57	54	62	62	67	69	68	68	70	73	71	59.1
Moorestown*	Maximum	77	81	70	78	72	74	81	80	72	75	82	83	74	80	80	68	76	70	81	77	81	70	74	93	88	87	87	89	94	89	79.4
.....	Minimum	58	56	56	54	49	43	57	57	55	53	53	60	60	55	56	53	50	57	61	59	58	60	60	64	70	68	67	70	70	70	58.6
Morris Plains	Maximum	79	82	83	79																											

51.05
NNJ

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

24

NEW JERSEY SECTION

A. E. WHITE.

TRENTON, N. J.

THE LIBRARY OF THE

UNIVERSITY OF ILLINOIS

DATES OF MISCELLANEOUS PHENOMENA

THUNDERSTORMS: 1, 5, 6, 7, 13, 14, 17, 18, 19, 21, 22, 23, 24, 26, 27.
HAIL: 6, 18. HEAVY FOG: 17, 18, 21, 23, 24.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

Station	Sea level pressure extremes, inches				Wind				Relative Humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Atlantic City.....	30.02	9	29.56	6	13.0	39	sw.	23	85	76	83	67	0
Long Branch.....	30.31	9	29.55	6	.....	33	n.	5	83	63*	76	70	1
Newark.....	30.30	9	29.53	6	.....	40	wnw.	6	76	51	62	.....	0
Trenton.....	30.31	9	29.55	6	7.5	25	sw.	13	77	53*	.....	63	0

* Noon

COMPARATIVE DATA FOR JULY

Year	Temperature			Precipitation		No. of days			
	Mean	Highest	Lowest	Average	Average Snowfall	0.1 inch or more prec.	Clear	Partly cloudy	Cloudy
1885.....	75.2	100	44	3.50	0	.....	.....	.....	.....
1886.....	73.0	98	48	4.91	0	.....	.....	.....	.....
1887.....	77.1	102	54	7.67	0	11	.....	.....	.....
1888.....	71.1	95	45	3.50	0	9	.....	.....	.....
1889.....	73.4	95	48	10.19	0	14	.....	.....	.....
1890.....	72.5	101	39	5.62	0	9	12	11	8
1891.....	70.1	95	43	5.30	0	12	10	11	10
1892.....	74.3	105	44	4.03	0	8	12	14	5
1893.....	73.9	102	40	2.72	0	8	14	13	4
1894.....	75.7	106	44	1.66	0	6	14	12	5
1895.....	70.9	99	41	4.26	0	10	12	12	7
1896.....	75.0	98	47	5.50	0	13	13	10	8
1897.....	74.1	102	50	11.42	0	15	10	11	10
1898.....	75.3	107	38	4.96	0	10	11	13	7
1899.....	74.7	98	38	5.75	0	11	13	11	7
1900.....	75.9	104	42	4.74	0	11	15	12	4
1901.....	77.3	107	45	5.87	0	14	9	13	9
1902.....	73.0	100	43	4.78	0	13	10	12	9
1903.....	73.3	100	38	5.51	0	12	16	10	5
1904.....	72.3	98	42	4.87	0	13	13	10	8
1905.....	74.4	102	42	4.06	0	12	12	13	6
1906.....	72.8	94	46	5.58	0	12	11	14	6
1907.....	73.6	96	40	2.62	0	8	8	12	11
1908.....	75.6	106	42	4.70	0	9	12	13	6
1909.....	71.6	99	36	2.12	0	5	14	14	3
1910.....	75.3	99	42	1.36	0	5	12	12	7
1911.....	76.0	104	42	3.64	0	8	12	12	7
1912.....	73.7	100	36	3.86	0	9	14	10	7
1913.....	74.4	100	41	2.52	0	8	20	9	2
1914.....	71.5	97	40	6.05	0	15	9	11	11
1915.....	72.8	98	44	5.31	0	14	10	13	8
1916.....	74.4	97	45	5.40	0	12	11	9	11
1917.....	74.2	104	46	4.83	0	12	10	11	10
1918.....	72.2	104	39	3.93	0	8	17	9	5
1919.....	73.5	103	43	8.39	0	14	14	7	10
1920.....	71.7	96	42	5.76	0	11	17	10	4
1921.....	76.5	99	43	3.62	0	10	14	9	8
1922.....	73.0	98	44	5.79	0	13	13	9	9
1923.....	71.9	102	40	3.88	0	11	15	8	8
1924.....	71.6	98	41	2.59	0	6	19	8	4
1925.....	72.0	99	39	7.37	0	13	15	9	7
1926.....	73.0	105	40	5.46	0	12	16	7	8
1927.....	72.7	99	36	6.06	0	11	13	10	8
1928.....	74.2	96	41	6.86	0	12	16	8	7
1929.....	73.0	102	33	1.64	0	6	17	9	5
1930.....	74.3	105	42	3.98	0	10	16	9	6
1931.....	76.6	102	50	4.24	0	11	13	10	8
1932.....	73.8	98	11	2.76	0	8	19	8	4
1933.....	73.4	105	41	3.73	0	8	16	8	7
1934.....	75.8	100	43	3.65	0	9	16	9	6
1935.....	76.0	101	40	4.66	0	10	14	11	6
1936.....	74.6	101	40	2.47	0	8	17	8	6
1937.....	74.6	103	43	2.83	0	9	17	8	6
1938.....	74.7	98	43	8.84	0	16	11	10	10
1939.....	73.4	98	38	2.33	0	8	14	10	7
1940.....	73.9	104	40	2.73	0	9	15	9	7
1941.....	73.8	105	41	6.40	0	15	12	8	11
1942.....	74.6	105	41	7.30	0	12	13	10	8
1943.....	74.2	97	39	4.21	0	10	14	9	8
1944.....	75.6	101	43	1.44	0	6	17	10	4
1945.....	73.3	99	36	9.32	0	15	8	8	15
1946.....	73.2	98	10	5.91	0	6	16	7	8
1947.....	73.8	96	44	4.27	0	11	13	9	9
1948.....	74.7	96	43	4.06	0	10	15	10	6
Period.....	73.9	110	33	4.70	0	10	14	10	7

GENERAL SUMMARY

Temperature for July averaged slightly above normal. There was no extended period of high temperatures but considerable sultry weather due to the high humidity. Most stations had four or five days with readings in the nineties but some stations had a dozen or more such days. The warmest days in most localities were the 5th and 21st. Quite cool weather prevailed on the 8th and 9th, and several stations reported readings in the forties on the 8th.

Rainfall averaged 83 percent of normal but varied greatly in different localities. A few stations in the extreme north and southwest reported marked deficiencies in rainfall. The greatest monthly amounts were generally in the northeastern counties and on the northern Jersey coast. Showers and thunderstorms were frequent in most parts of the State, after the 12th of the month with two rain periods prior to that time. Sunshine was adequate, however, and good growing conditions prevailed. There were no destructive storms, though fairly strong winds occurred in some areas on the 6th and 23d.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 45 stations, was 74.7°, which was 0.8° above normal. The highest temperature was 96° at four stations on the 5th and other dates, and the lowest, 43°, at two stations on the 8th. The highest monthly mean temperature was 76.8° at three stations, and the lowest, 71.5° at Layton. The temperature departure from the normal for the year 1948, to date, for the State is -0.7°.

PRECIPITATION

The average precipitation of the State, as computed from observations of 64 stations, was 4.06 inches, which was 0.64 inch below normal. The greatest monthly precipitation was 7.17 inches at Rutherford, and the least, 1.57 inches at Swedesboro. The greatest amount of precipitation in any 24 consecutive hours was 4.23 inches at Rahway on the 13-14th. The average for the Highlands was 2.98 inches; for the Red Sandstone Plain, 4.27 inches; Southern Interior, 3.78 inches; and for the Sea Coast, 5.08 inches. The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, +2.43 inches; Red Sandstone Plain, +5.13 inches; Southern Interior, +5.09 inches; Sea Coast, +8.02 inches.

Climatological Data for July 1948

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	Precipitation .01 in. or more	Clear	Pt. cloudy			Cloudy
Atlantic City	Atlantic	8	75	74.0	+1.9	89	6	60	8	4.08	+0.15	1.39	23	0	8	9	13	9	s.	U. S. Weather Bureau.
Belleplain	Cape May	49	54	74.6	+0.9	91	6†	43	8	4.08	-0.11	2.01	23	0	8	12	10	9	sw.	Mrs. Edward C. Hoffman.
Belmar	Monmouth	19	7							4.50		1.91	23	0	10	18	3	10	sw.	City Water Dept.
Belvidere	Warren	289	56	75.8	+2.0	96	5	54	8	4.24	-0.64	0.78	20†	0	12	17	8	6		Miss C. S. Hixson.
Berlin, 1 mile W.	Camden	70	7																	Samuel H. McCulley.
Boonton	Morris	280	58§	72.5	+0.2	91	5	51	8	3.82	-0.52	1.25	20	0	10				sw.	J. C. Water Works.
Bridgeton	Cumberland	30	65	76.1	-0.4	90	5†	55	8	4.43	+0.10	1.89	30-1	0	7	21	5	5	sw.	Bennett K. Matlack.
Brooklawn	Camden	30	7							3.76		1.38	27	0	7					C. D. Scott.
Burlington	Burlington	12	62§	76.8	+0.8	96	12	56	25	2.59	-1.91	0.95	27	0	5	16	10	5	sw.	Public Service E. & G. Co.
Canoe Brook†	Essex	180	18	73.4	+1.0	95	1	48	8	5.12	+0.86	2.03	21-22	0	9	20	8	3	w.	N. J. Dept. of Conservation.
Cape May	Cape May	17	60	75.6	+2.1	90	31	52	8	4.19	+0.66	1.64	13-14	0	7	16	13	2	s.	Richard F. Umfrid, Jr.
Charlotteburg†	Passaic	760	56	71.0	+0.6	89	5†	43	8	2.73	-1.93	0.71	13-14	0	10	8	8	15	w.	Newark Water Dept.
Chatham	Morris	185	44							5.23	+0.52	2.21	22	0	9	19	4	8		Edward P. Molitor.
Chatsworth	Burlington	90	8	74.2		93	21	48	9	5.06		1.83	Jun. 30	0	11	6	15	10	sw.	Alfred L. Stevenson.
Clayton	Gloucester	120	35	76.2	+1.0	93	21†	54	8	2.12	-2.44	0.89	6	0	8	15	12	4	sw.	Harry P. Campbell.
Clinton	Hunterdon	300	5							3.46		1.17	13-14	0	10	15	7	9	sw.	L. W. Klockner.
Culvers Lake†	Sussex	760	47							2.08	-2.39	0.39	16	0	10					L. S. Depue.
Elizabeth	Union	33	69	75.6	+0.2	94	5	54	8	6.20	+1.25	2.37	21-22	0	10	17	8	6	w.	Union County Park Comm.
Flemington, 2 mi. N.E.	Hunterdon	134	62§	75.0	0.0	93	5†	50	8	2.58	-2.51	0.82	23	0	10	14	10	7	w.	Donald C. Young.
Freehold	Monmouth	194	44§	75.2	+0.6	92	5†	53	8	4.40	-0.29	1.41	13-14	0	11	12	15	4	sw.	Moreau Plant Co.
Hammonton	Atlantic	95	42§	76.3	+0.5	95	21	51	8	5.20	+0.62	2.00	23	0	9	16	13	2	sw.	J. G. Wilson.
Hightstown	Mercer	100	55	74.7	+0.5	92	5	54	8	6.23	+1.39	2.23	13	0	9	9	17	5	sw.	James R. Pickering.
Indian Mills†, 2 mi. W.	Burlington	100	59	74.6	+0.0	92	21†	49	16	2.68	-1.82	1.14	23	0	12	7	20	4	sw.	Edward Entwistle.
Jersey City	Hudson	135	50	74.2	-1.7	92	5	58	7†	5.28	+1.00	2.10	21-22	0	8	16	9	6	sw.	J. C. Water Dept.
Lakewood	Ocean	54	44	73.6	0.0	92	30	46	16	4.41	-0.06	1.14	23	0	9	13	8	10	sw.	George G. Waddill.
Lambertville	Hunterdon	75	61	74.9	+0.7	92	5	54	8†	2.47	-2.28	0.78	21-22	0	12	17	11	3	sw.	George Bailey.
Layton†, 3 miles NW.	Sussex	480	47	71.5	+0.3	90	12†	45	8	3.88	-0.55	1.82	13	0	9	17	6	8	sw.	A. M. Depue.
Little Falls	Passaic	157	45	75.0	+0.9	94	5	51	8	4.75	+0.33	1.41	13	0	10	15	12	4	w.	Passaic Valley Water Co.
Long Branch	Monmouth	34	40	74.6	+1.5	92	5	55	8	5.49	+0.90	1.95	13-14	0	11	16	9	6	w.	Storm Warn. Display Sta.
Long Valley	Morris	660	18	71.6	+0.1	91	5	46	8	4.06	-1.40	1.15	21-22	0	10	21	8	2	sw.	Arthur Barkman.
Marlton, 1 mile W.	Burlington	90	7							3.89		0.95	30-1	0	13	11	14	6	sw.	David Griscom.
Mays Landing	Atlantic	50	4							7.05		1.80	13-14	0	9	24	3	4	sw.	Elmer Earle.
Millville, 2 mi. SW.	Cumberland	60	8	75.6		92	13†	52	8	3.54		0.95	27-28	0	10	10	11	10	sw.	Millville Airport.
Moorestown	Burlington	62	85	74.6	+0.2	90	5†	54	16	3.66	-0.88	1.04	26-27	0	10					Japanese Beetle Laboratory
Morris Plains, 1 mi. W.	Morris	400	7	73.7		92	5†	49	8	3.81		1.10	14	0	10	22	5	4		James C. Long.
Newark	Essex	11	94	76.7	+1.9	95	12	56	8	6.88	+2.17	2.79	21-22	0	12	6	15	10	sw.	U. S. Weather Bureau.
New Brunswick	Middlesex	99	94	74.6	+0.5	92	5†	55	8	3.84	-1.03	1.35	13-14	0	11	17	7	7	sw.	N. J. Experiment Station.
New Milford†	Bergen	12	30							3.16	-1.47	1.18	18	0	12					Hackensack Water Co.
Newton	Sussex	769	65	72.1	-0.5	92	5	50	9†	1.69	-2.96	0.38	21-22	0	10	13	17	1	sw.	Charles M. Wheeler.
Orange†	Essex	140	8							4.18		1.35	21	0	10					County Engineer.
Paterson	Passaic	100	77	76.8	+2.2	95	5	55	8	3.88	-0.88	0.97	13	0	12	6	21	4	sw.	Philip J. Del Vecchio.
Pemberton	Burlington	60	19	74.8	-1.2	91	21	52	8	4.50	+0.28	1.75	Jun. 30	0	11	14	13	4	sw.	Charles A. Doeblert.
Phillipsburg	Warren	182	65§	74.4	+0.5	96	12	53	8	2.36	-2.51	0.54	22-23	0	10	17	10	4	sw.	Town Engineer.
Plainfield	Union	85	60	74.0	0.0	93	5	52	8	4.18	-1.42	1.05	13-14	0	10	9	16	6	sw.	S. K. Pearson.
Plainsboro	Middlesex	110	7							3.68		1.53	23	0	7					Walker-Gordon Lab.
Pleasantville†	Atlantic	8	50	74.9	+1.6	92	31	48	8	2.90	-1.17	0.72	7	0	10	16	8	7	sw.	N. J. Dept. of Conservation.
Rahway	Union	20	9							6.18		4.23	13-14	0	11	20	5	6	sw.	Louis Fontenelli.
Ridgefield	Bergen	80	31	75.4	+1.5	94	5	53	8	5.45	+0.84	1.36	13-14	0	11	13	16	2	sw.	George P. Kirsten.
Ringwood	Passaic	0								3.45		1.73	14	0	9	21	2	8		No. Jersey Water Supply
Runnemede	Camden	42	0	75.0		93	30	54	8†	2.03		0.70	13	0	11	9	14	8	sw.	Henry D. Mosher
Runyon†	Middlesex	18	25	75.0	+1.9	96	15	52	19	5.11	+0.42	1.87	23	0	7	22	8	1	w.	N. J. Dept. of Conservation.
Rutherford	Bergen	51	4	76.4		94	4†	54	8	5.69		1.61	13	0	12	10	14	7	sw.	Harold Scott.
Sandy Hook	Monmouth	22	50	76.8	+3.3	93	5	59	7	7.17	+2.05	2.81	13-14	0	10	5	18	8	w.	U. S. Coast Guard.
Somerville	Somerset	65	65	74.4	+0.4	94	5	50	8	4.47	-0.61	1.09	13-14	0	10	15	9	7	sw.	William E. Haver.
Sussex	Sussex	450	53	73.0	+0.6	92	5	48	8	3.09	-1.48	1.26	13	0	12	14	2	15	w.	Marshall Hunt.
Swedesboro	Gloucester	75	2							1.57		0.92	30-1	0	10	17	11	3	sw.	E. F. Hurff Co.
Toms River	Ocean	33	27							3.69	-1.55	1.49	Jun. 30	0	8					Robt. F. Snyder.
Trenton	Mercer	56	76	76.2	+1.6	93	5	59	8	4.59	+0.65	1.81	23	0	12	7	15	9	s.	SECTION CENTER USWB.
Trenton No. 2	do.	105	18	76.3	+0.8	94	5	58	8†	5.17	+0.47	2.01	23	0	11					Edward H. Ristow.
Tuckerton	Ocean	23	55																	(Vacant)
Vineland	Cumberland	110	68							4.85	+0.40	1.66	23	0	6	18	10	3	s.	Robert Jones.
Westfield	Union	135	9							4.89		1.74	21	0	14	19	4	8	sw.	Town Engineer.
Woodcliff Lake†	Bergen	103	30							1.77	-2.33	0.92	13	0	12					Hackensack Water Co.
Woodstown, 2 mi. N.	Salem	16	12	74.4		91	21	56	7†	3.53		1.45	5-6	0	10	15	11	5		Charles Clark.
New York, N. Y.		10	73	75.6	+1.8	90	5	59	8	7.52	+3.28	3.28	13-14	0	11	7	15	9	sw.	U. S. Weather Bureau.
Philadelphia, Pa.		26	78	76.8	+0.6	91	5	61	8	3.40	-0.75	0.79	23	0	9	5	15	11	s.	U. S. Weather Bureau.
For the State				74.7	+0.8	96	5†	43	8	4.06	-0.64	4.23	13-14	0	10	15	10	6	sw.	

All departures from normal are computed from the averages of the entire period of record through 1945 for temperature and through 1944 for precipitation, except that for First-Order Weather Bureau stations they are based on adopted normals. Stations with less than 10 years record have no normals. † Received too late to be included in the means. T. Precipitation less than 0.01 inch rain or melted snow. * Partly estimated. Amounts in italics are interpolated.

† On other dates also. § Length of precipitation record; temperature record is much shorter.

†† Post-office address as follows:—Culver- Lake is Branchville; Indian Mills is R. D. 2, Vincentown; New Milford and Woodcliff Lake are Weehawken; Pleasantville, Canoe Brook and Runyon are Trenton; Charlotteburg is Newfoundland; Layton, is Port Jervis, N. Y.; Orange is Newark, N. J.

Figures and letters following station indicate distance and direction of station from the city or town

ERRATA

1947. March: Bridgeton, days with .01, 8. April: Clayton, greatest 24-hour precipitation, .82; Wanaque, same, 2.30. May: Belmar, days with .01, 14; Long Valley, same, 15. August: Hammonton, days with .01, 8. December: Freehold, mean maximum temperature, 41.9; Long Branch, days with .01, 10.

1948. January: Chatsworth, mean maximum temperature, 36.1; mean minimum, 16.0. February: Long Branch, days with .01, 11. March: Morris Plains, total snowfall, 4.6.

Daily Precipitation for July 1948

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic City ^{1†}	Coast	T.					.64	T.						.87	.07	.01		.49	T.					1.39					T.	.26		.35	4.08	
Bass River	do.	.52					.10	T.						.31	.31			.55	T.					.88					T.	.16			4.52	
Belleplain	Tuckahoe						.10	.27						.73	.12			.41					2.01		.12					.32			4.08	
Belmar ²	Coast	.53				.01	.06	.10						.67				.15	T.				.42	1.94					.59	T.		.03	4.50	
Belvidere	Delaware	.03					.71	T.						.42	.08			.65	.19	.78	.07		.78	.14	.37							.02	4.24	
Berlin ³	Mullica																																	
Boonton ³	Passaic	.09					.36	.29						.34							1.25		.49	.31	.05				.02	.02		T.	3.82	
Bridgeton	Delaware	1.89		T.			.12							.25				.22	T.				1.25						.57			.13	4.43	
Brooklawn	do.	1.24					.23							.15				.17					.09	.50	T.				1.38				3.76	
Burlington	do.	.45												.30	T.	.19	T.						.50		.20				.95				2.59	
Canoe Brook ³	Passaic	.21					.13	.29						1.50					T.	T.	T.		2.03	.51	.38				.05	.02			5.12	
Canton ²	Delaware	1.23					.04	.06						.20	.02			.07															1.62	
Cape May ¹	Coast	.02		T.				.20						1.64	.82			1.06						.43	T.					.02			4.19	
Charlotteburg	Passaic	.06					.18	.70						.11	.60				.18		.25			.41	.20					.01		.04	2.73	
Chatham ³	do.	.20					.18	.32						1.39					T.				2.21	.65	.24				.03	.01			5.23	
Chatsworth	Coast	1.83					.31	.06						.10	.05					.08				.53	.92					.34	.78		.06	5.06
Clayton	Delaware	.81					.89	T.						.25	T.				T.						.08					T.	.05		.04	2.12
Clinton	Raritan	.02					.09	.20						.34	.83				.06					.30	.72	.12							3.46	
Culvers Lake	do.	.13				.14								.25	.31			.39		.11	.33			.18	.14								2.08	
Elizabeth	Coast	.40					.35	.15						1.48	.76				.03	T.	.06			2.37	.45				.15	T.			6.20	
Essex Fells ³	Passaic	.15					.45	.38																.57	.41	.10				.04			3.12	
Flemington	Raritan	.08					.23	.15							.71				.02					.51	.75	.07							.02	2.58
Freehold	do.	.42					.05	.03						1.41				.01	.01					.21	1.03				1.11	.11			.41	4.40
Hammontou	Mullica	1.90					.11	.03						.29				.10						2.00					T.	.25			.01	5.20
Hightstown	Raritan	.57					.11	.05						2.23	T.			T.						.29	1.82	.01			1.14			.01	6.23	
Indian Mills	Mullica	.43					.24	.17						.17	.13	T.		.05						.09	1.14	.01			.01	.06	.10		.08	2.68
Jersey City ²	Coast					.15		.21						2.04							.15			1.93	.17	.55				.08	.03			5.28
Lakewood	Metedeconk	1.13					.15	.03						.77			T.	T.						.43	1.14	T.	T.			.69	.03		.04	4.41
Lambertville	Delaware	.13					.05	.12						.31	.01	.05		.03						.78	.69	.01				.17		.12	2.47	
Layton	do.	.18				.06	.32	.11						1.82										.33	.10	.12							3.88	
Little Falls ³	Passaic	.11					.39	.51						1.41									1.25	.38	.35	.28				.06	.01			4.75
Long Branch ^{2†}	Coast	.02				.03	.27	.18						1.81	.14								.01	.09	1.73				1.19			.02	5.49	
Long Valley ³	Raritan	.05					.50	.05						1.10										1.15	.31	.05				.05			4.06	
Manville ²	do.	T.				.21	.50							1.24					.76					.37	T.	.90			.12	T.			4.10	
Marlton	Delaware	.95					.21	.05						.81	.08			.05						.35	.04	.36				.44	.03	.47	.05	3.89
Mays Landing	Gt. Egg Harbor	1.23			T.	.05	.74							.75	1.05			.52						.87						.80		1.04	7.05	
Midland Park ²	Passaic	.02					.01	.03	.22					.71				.16	.43					.13	.04	.26				.01		.06	2.08	
Millville (Arpt.) ^{2†}	Maurice	T.		T.			.26	.02						.39	.32	.01		.44		T.				T.	.88					.50	.45		.27	3.54
Moorestown ³	Delaware	.60				T.	.10	.41	T.					T.	.56	.11			.01					.34	.15	.34				T.	1.04	T.		3.66
Morris Plains	Passaic	.07					.30	.30						1.10				T.	T.	.29	.02			.99	.41	.31				.02			T.	3.81
Newark ¹	Coast	.01				.06	.33	.14						2.51	.01			T.	.03					2.78	.01	.89			T.	.10	.01		T.	6.88
New Brunswick	Raritan	.50				T.	.41	.15						.05	1.30			.05						.10	1.10				.15			T.	.01	3.84
New Milford ^{2†}	Hackensack	.02				.03	.28	.12						.50					1.18	.21				.17	.03	.49	.01			.12			T.	3.16
Newton ³	Delaware	.04					.13	.24	T.					.02	.12				T.	.25	.37				.38	.06	.08						T.	1.69
Orange ¹	Passaic					.07	.46	.16						1.14					.19					1.35		.72			.01	.06	.02			4.18
Paterson ³	do.	.35					.24	.26						.04	.93				.28	.65				.33	.37	.35				.07	.01		T.	3.88
Pemberton	Delaware	1.75					.63	.03						.05	.70	.02		.06						.19	.22					.70	.15		T.	4.50
Phillipsburg	do.	.06				T.	.14	T.						.40				.30	.34	.06	T.			.07	.40	.54			T.	.05	T.		T.	2.36
Plainfield	Raritan	.35					.26	.14						.16	.89	T.		T.	T.	.81					.90	.48	T.			.18	.01		T.	4.18
Plainsboro	do.	.43					.02																	.43	1.10					1.07				3.68
Pleasantville ³	Coast	.49	.02				.09	.70	.02						.08				.28						.61					.12	.49			2.90
Rahway ^{2†}	Rahway	.05				.10		.13	.18					4.20	.03			T.			.14			.65	.05	.53				.12				6.18
Ridgefield	Hackensack	.28					.85	.07						1.30	.06						.05	1.20			.68	.77				.17	.02			5.45
Ringwood ³	Passaic	T.	.01				.08	.88						.29	1.73									.10	.10					T.		T.	3.45	
Rummede	Delaware	.42					.14	T.						.60	.10	.02		.20						.09	.06	.21				.17	T.	T.	.02	2.03
Runyon	Coast	.64					.12	.21						1.40					</															

Daily Temperatures for July 1948

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Atlantic City*.....	Maximum...	79	83	79	80	84	89	71	80	78	75	76	76	79	73	77	75	80	81	81	82	80	81	84	79	80	85	81	80	86	79.6		
	Minimum....	69	62	67	70	72	64	61	60	64	68	67	67	66	66	63	69	70	72	73	73	71	72	72	65	70	72	71	73	72	71	68.4	
Belleplain.....	Maximum...	80	84	80	89	90	91	89	82	85	83	86	90	90	85	77	81	76	88	90	89	90	89	91	83	75	86	91	88	89	90	86.0	
	Minimum....	52	52	52	61	64	70	61	43	54	55	65	66	71	71	62	54	59	67	65	64	67	76	70	67	58	59	73	70	68	68	75	63.2
Belvidere.....	Maximum...	86	85	85	90	96	89	76	85	89	88	92	94	83	85	85	87	80	90	88	87	91	87	82	84	85	86	89	88	91	94	89	87.3
	Minimum....	70	55	60	61	62	69	62	54	62	60	62	67	71	70	61	62	63	69	64	63	67	67	60	66	57	59	73	69	62	63	73	64.3
Boonton/.....	Maximum...	86	81	84	89	91	85	75	84	88	84	86	89	85	84	84	83	74	86	84	84	89	84	84	80	81	82	86	87	88	86	84.5	
	Minimum....	69	61	55	59	58	64	58	51	53	55	60	66	65	69	60	53	55	64	63	60	61	64	64	65	57	56	55	64	62	61	64	60.5
Bridgeton.....	Maximum...	85	82	82	88	90	90	75	82	84	83	87	90	90	82	80	82	76	90	87	85	90	85	88	82	83	83	88	87	86	89	88	85.1
	Minimum....	69	61	62	66	69	71	62	55	60	66	66	68	72	70	68	58	65	71	67	69	70	73	70	69	61	63	72	70	70	72	74	67.1
Burlington.....	Maximum...	88	86	85	91	93	89	79	88	88	86	90	96	91	86	87	86	80	89	89	88	92	91	87	85	84	87	88	87	89	94	94	88.2
	Minimum....	68	60	66	63	61	60	59	63	60	67	63	64	71	71	67	57	62	70	67	68	67	72	66	66	66	67	71	69	70	68	77	65.3
Canoe Brook /.....	Maximum...	95	83	84	90	94	88	77	85	87	86	89	92	83	86	83	84	75	89	87	85	93	83	79	84	84	85	90	80	90	92	88	86.1
	Minimum....	68	53	62	59	58	67	58	48	52	54	57	63	67	69	58	51	56	65	59	59	62	67	64	54	53	55	70	71	76	60	67	60.7
Cape May.....	Maximum...	83	80	83	86	88	88	86	81	81	81	82	81	84	78	78	74	86	81	81	86	84	82	82	81	81	88	87	86	89	90	83.1	
	Minimum....	72	67	68	67	69	71	63	52	64	69	66	67	69	70	66	63	65	68	71	70	74	73	69	72	71	66	72	72	72	71	73	68.2
Charlotteburg.....	Maximum...	86	80	81	82	89	86	81	81	85	84	86	89	87	83	81	82	78	85	82	84	88	83	80	78	80	82	86	85	85	89	87	83.7
	Minimum....	67	56	49	52	53	56	56	43	47	56	59	63	65	65	55	48	53	61	59	62	65	62	62	62	62	62	68	67	64	72	58.3	
Chatsworth.....	Maximum...	90	78	82	87	92	90	77	75	87	85	89	91	91	85	80	84	87	90	90	90	93	92	92	87	80	86	87	90	88	91	88	86.7
	Minimum....	66	57	60	59	63	68	59	50	48	51	61	62	67	64	61	54	62	64	62	64	71	67	66	61	58	71	71	68	65	73	61.7	
Clayton.....	Maximum...	88	86	85	90	92	91	74	85	87	85	89	91	90	80	82	84	75	89	88	86	93	85	90	85	87	87	87	89	91	93	89	86.9
	Minimum....	64	60	62	64	67	69	60	51	58	67	62	65	70	71	65	66	72	66	65	67	74	69	69	59	60	71	70	70	69	64	65.9	
Elizabeth.....	Maximum...	89	84	86	91	94	90	76	86	90	87	91	93	88	85	83	86	79	87	86	93	86	81	84	85	87	91	90	92	93	89	87.4	
	Minimum....	69	59	59	63	64	68	58	54	57	57	61	65	69	70	64	56	59	68	64	64	67	68	67	64	58	58	72	72	61	65	63.8	
Flemington.....	Maximum...	86	84	85	90	93	90	80	89	88	86	89	91	89	85	83	84	80	88	89	93	87	85	83	86	89	88	89	90	92	88	87.3	
	Minimum....	68	60	61	59	60	69	59	50	52	55	62	63	69	70	63	55	58	66	61	63	65	67	75	53	56	71	71	60	62	74	62.7	
Freehold.....	Maximum...	89	82	84	89	92	91	80	85	88	85	89	91	91	85	79	81	78	90	88	85	91	88	88	83	85	88	89	89	92	89	86.8	
	Minimum....	68	56	62	62	65	65	58	53	57	58	60	64	69	70	67	55	60	68	65	65	64	69	65	64	58	58	69	71	67	66	77	63.7
Hammonton.....	Maximum...	89	91	84	93	92	91	71	84	87	81	89	92	84	82	85	82	91	90	92	95	91	94	64	84	88	89	91	90	91	93	92	88.4
	Minimum....	69	59	60	63	66	53	53	51	51	56	61	60	63	72	58	54	60	71	72	71	61	73	66	68	69	71	71	69	68	67	64.2	
Hightstown.....	Maximum...	86	82	85	89	92	89	72	83	88	85	88	90	90	84	79	85	76	88	86	90	83	86	82	83	85	88	87	88	90	86	85.6	
	Minimum....	68	56	62	62	65	69	58	54	57	58	61	64	70	70	64	55	60	68	63	66	69	66	64	57	60	70	71	66	67	75	63.8	
Indian Mills.....	Maximum...	85	81	84	91	91	89	72	85	87	84	88	91	90	82	81	84	77	89	89	92	84	92	82	84	85	87	90	90	91	87	86.2	
	Minimum....	68	55	59	60	65	70	59	50	54	57	59	61	70	70	67	59	69	61	61	64	72	68	67	55	57	72	71	69	66	73	63.1	
Jersey City*.....	Maximum...	87	80	78	89	92	87	72	82	83	83	88	89	80	81	78	79	70	83	84	80	84	80	76	79	80	83	84	86	85	87	84	82.4
	Minimum....	69	61	62	65	68	69	58	58	64	64	68	69	64	68	64	64	65	68	65	69	68	69	65	61	68	71	70	66	70	74	66.1	
Lakewood.....	Maximum...	90	81	81	85	90	89	74	83	86	85	88	91	90	82	76	81	78	89	87	87	91	90	90	82	82	85	88	89	86	92	87	85.6
	Minimum....	65	56	59	59	62	69	58	49	53	58	62	64	67	70	55	46	53	69	61	61	61	68	63	64	54	56	69	71	63	66	70	61.5
Lambertville.....	Maximum...	89	82	82	90	92	89	80	83	87	85	88	91	89	85	82	84	80	89	86	87	90	86	82	81	84	88	87	87	90	88	85.9	
	Minimum....	69	56	64	62	63	70	61	54	55	57	60	64	73	72	63	54	61	69	62	63	66	70	68	65	58	71	71	64	70	63	63.9	
Layton.....	Maximum...	83	80	82	89	92	89	77	89	85	85	87	90	85	83	88	75	89	85	89	88	85	77	82	82	87	78	88	89	90	84	86.6	
	Minimum....	64	49	50	56	53	64	56	45	49	50	62	66	65	66	52	54	56	53	60	56	62	65	65	60	79	53	65	66	62	55	69	58.4
Little Falls.....	Maximum...	87	83	85	90	94	88	77	86	89	90	92	88	90	82	88	84	85	84	89	86	87	91	85	81	83	83	85	87	89	93	93	87.0
	Minimum....	69	58	56	61	61	69	58	51	55	57	65	65	69	69	60	55	59	67	63	67	69	65	65	57	58	72	73	62	63	75	63.1	
Long Branch*.....	Maximum...	83	82	80	86	92	90	70	81	84	86	88	91	90	84	83	77	82	76	88	87	82	88	77	86	82	83	84	86	89	85	85	84.1
	Minimum....	68	63	62	63	65	71	58	55	57	60	63	67	69	69	67	56	58	70	67	66	67	68	69	67	60	63	70	72	68	69	72	65.1
Long Valley /.....	Maximum...	85	79	82	87	91	85	73	82	86	84	87	90	86	82	82	82	72	86	84	81	88	81	80	81	82	81	86	86	87	89	84	83.7
	Minimum....	66	53	53	56	56	67	60	46	50	58	58	61	65	67	57	52	56	63	61	59	64	66	61	53	56	70	69	58	58	72	59.6	
Millville (Airport).....	Maximum...	87	81	84	90	91	90	72	84	86	84	88	91	92	84	82	81	76	86	90	89	92	87	90	83	83	86	91	89	89	91	90	86.5
	Minimum....	67	58	60	65	67	69	56	52	58	60	65	64	71	69	58	53	64	70	67													

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U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

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CLIMATOLOGICAL DATA

NEW JERSEY

AUGUST 1948

Volume LIII No. 8



NEW YORK CITY: 1948

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages -- mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U.S. Weather Bureau, Washington 25, D.C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

NEW JERSEY - AUGUST 1948

A. E. White, Section Director - Trenton, N. J.

GENERAL SUMMARY

The weather was comparatively cool during the first 23 days of August though sultry at times due to high humidity. During a cool period from about the 5th to 10th, several stations recorded minimum temperatures in the forties, the lowest reading being 41° at Charlotteburg on the 7th. A severe heat wave prevailed during the last week of the month though a change to cooler occurred on the last day. This was by far the hottest weather of the summer. In fact, the week from the 24th to 30th was, with one exception, the hottest of record in Trenton and vicinity during the past 36 years, the exception being the week of July 8th to 14th, 1936. Most other stations were equally as hot and the majority of them recorded monthly maxima of 100° or higher. The reading of 106° at Clayton on the 26th is next to the highest of record for the State.

Rainfall showed unusual variation. In general, it was least in the Highlands of North Jersey and heaviest over the southern half of the State. Four southern stations reported monthly totals of more than 10 inches. Showers and thunderstorms were frequent until the 22nd but there was no rain of importance thereafter. The first week was wet with rain nearly every day. There were good showers around the 12th and 13th, and a rainy period from about the 20th to 22nd, during which some very heavy amounts fell, particularly in the southern and central parts of the State. Heavy rains also fell at some southern stations during the first four days of the month.

With abundant rainfall and adequate sunshine, crops continued in good growing condition though there was some interference with cultivation, and with the harvesting of matured vegetable crops, especially tomatoes. The severe heat of the last week damaged the tomato crop causing heavy losses from sun scald. The extreme heat dried out the soil rapidly so that by the end of the month, some localities were beginning to need rain. Field corn, raised mainly in central and northern counties was in excellent condition. There was no damage of consequence from wind or hail during the month.

TEMPERATURE

The monthly average temperature of the State, as computed from observations of 44 stations, was 73.2°, which was 1.2° above normal. The highest temperature was 106° at Clayton on the 26th, and the lowest, 41° at Charlotteburg on the 7th. The highest monthly mean temperature was 76.2° at Burlington, and the lowest, 69.6° at Layton. The temperature departure from the normal for the year 1948, to date, for the State is -0.4°.

PRECIPITATION

The average precipitation of the State, as computed from observation of 90 stations, was 5.60 inches, which is 0.88 inches above normal. The greatest monthly precipitation was 10.87 inches, at Chatsworth, and the least, 2.42 inches at Ringwood. The greatest amount of precipitation in any 24 consecutive hours was 5.39 inches at Hammonton on the 20th. The average for the Highlands was 3.64 inches; for the Red Sandstone Plain 5.06 inches; for the Southern Interior 6.47 inches, and for the Sea Coast 4.55 inches. The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, +1.48 inches; Red Sandstone Plain, +5.48 inches; Southern Interior, +6.57 inches; Sea Coast, +7.92 inches.

NEW JERSEY

AUGUST 1948

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

STATIONS	SEA LEVEL PRESSURE EXTREMES - INCHES				WIND				RELATIVE HUMIDITY AVERAGES				SUN- SHINE	DEGREE DAYS 65° BASE
	HIGHEST	DATE	LOWEST	DATE	AVERAGE SPEED M.P.H.	MAXIMUM SPEED M.P.H.	DIRECTION	DATE	1:30A EST	7:30A EST	1:30P EST	7:30P EST	PERCENT OF POSSIBLE	
ATLANTIC CITY	30.23	23	29.70	5	11.5	30	N	31	89	88	76	83	63	0
NEWARK	30.22	23	29.69	13	-	-	-	-	84	78	54	68	-	0
TRENTON	30.22	23	29.72	5	7.0	22	NW	6	-	81	59	-	56	0

TABLE 1
COMPARATIVE DATA

YEAR	TEMPERATURE			PRECIPITATION			YEAR	TEMPERATURE			PRECIPITATION		
	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE		MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE
1885	71.7	95	40	6.11	0		1920	72.3	94	42	6.10	0	17
1886	69.5	96	42	2.81	0		1921	69.8	97	38	4.32	0	9
1887	70.4	94	42	3.76	0		1922	71.2	96	39	4.03	0	12
1888	72.5	98	41	6.13	0		1923	70.8	98	35	2.44	0	8
1889	69.6	91	45	5.13	0		1924	71.9	102	38	4.40	0	8
1890	71.5	99	40	4.90	0	11	1925	71.0	93	35	2.10	0	7
1891	72.8	100	46	5.32	0	13	1926	72.8	101	38	6.58	0	14
1892	73.4	99	46	3.63	0	9	1927	67.1	89	37	8.55	0	12
1893	72.8	98	38	6.52	0	8	1928	74.5	99	45	6.72	0	13
1894	70.9	97	44	2.58	0	7	1929	69.8	97	39	2.58	0	9
1895	74.2	102	34	2.53	0	7	1930	71.1	101	34	3.32	0	6
1896	73.6	105	39	1.83	0	7	1931	73.5	101	45	5.10	0	12
1897	71.0	91	41	4.39	0	9	1932	73.5	99	44	2.75	0	7
1898	74.8	98	42	5.36	0	10	1933	72.7	101	45	10.53	0	14
1899	72.3	99	39	4.36	0	9	1934	69.8	100	33	3.61	0	10
1900	76.3	104	41	2.68	0	10	1935	72.4	98	36	2.57	0	8
1901	73.8	98	44	9.43	0	11	1936	74.2	101	44	4.14	0	10
1902	70.1	93	40	3.91	0	9	1937	75.2	100	45	6.82	0	14
1903	68.4	98	39	6.95	0	13	1938	75.4	100	41	3.09	0	8
1904	70.8	92	37	6.62	0	9	1939	75.3	98	50	7.03	0	11
1905	71.1	95	38	5.72	0	12	1940	69.4	95	32	5.96	0	12
1906	74.6	97	42	5.95	0	13	1941	71.0	97	34	4.06	0	9
1907	70.5	96	39	3.45	0	10	1942	71.3	98	35	8.24	0	11
1908	70.6	103	36	5.05	0	10	1943	73.2	99	39	2.16	0	6
1909	70.2	100	34	4.59	0	6	1944	73.9	104	35	2.79	0	6
1910	70.4	92	36	3.78	0	10	1945	71.2	97	40	4.37	0	8
1911	72.1	101	39	8.91	0	11	1946	69.2	93	38	4.49	0	12
1912	70.0	95	35	3.42	0	10	1947	74.7	100	42	3.83	0	9
1913	71.7	100	38	4.06	0	10	1948	73.2	106	41	5.60	0	9
1914	73.3	98	46	3.15	0	9	Period	72.0	108	32	4.71	0	10
1915	70.9	98	41	7.73	0	13							
1916	73.2	100	40	1.34	0	6							
1917	74.0	103	42	2.21	0	8							
1918	74.4	108	40	1.85	0	7							
1919	69.9	98	38	6.89	0	13							

TABLE 2
CLIMATOLOGICAL DATA

NEW JERSEY

AUGUST 1948

STATION	TEMPERATURE, IN DEGREES FAHRENHEIT								PRECIPITATION, IN INCHES									
	MEAN	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	NO. OF DAYS		TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOWFALL (UNMELTED)			NO. OF DAYS		
							MAX. 90° OR ABOVE	MIN. 32° OR BELOW					TOTAL	GREATEST DEPTH ON GROUND	DATE	.01 INCH OR MORE	.25 INCH OR MORE	1.00 INCH OR MORE
ATLANTIC CITY WB	73.6	1.5	97	26+	59	6	4		8.23	3.74	4.97	20				7	5	2
BELLEPLAIN	74.2	1.8	101	27	53	16	6		8.04	3.56	3.80	4				7	7	3
BELMAR									6.70		2.13	20				11	6	2
BELVIDERE	73.9	2.5	103	26	51	10	8		4.55	-.27	1.80	5				9	5	1
BERLIN 1 W									3.86		1.82	3				6	5	1
BOONTON	71.7	1.3	100	27	51	8	5		6.06	1.61	2.04	21				9	5	2
BRIDGETON	73.8	- 1.0	97	26	57	7	6		6.53	1.89	3.00	4				8	5	2
BRIDGETON NO 2									7.75		1.64	1				10	8	3
BROOKLAWN									4.46		1.59	20				7	4	2
BURLINGTON	76.2	1.8	102	26	55	1	8		4.10	- 1.27	.95	3				10	6	
CANISTEAR RESERVOIR									5.08		2.70	22				7	5	1
CANOE BROOK	71.8	1.1	102	27	49	7+	5		5.38	.12	1.77	21				10	6	1
CANTON									5.81		2.02	4				11	6	2
CAPE MAY	75.4	2.6	95	28	60	10	5		8.45	3.91	3.00	1				8	7	3
CEDAR GROVE									5.54		1.85	13				9	6	2
CHARLOTTEBURG	69.8	1.5	97	26	41	7	5		3.98	-.65	1.19	6				10	5	2
CHATHAM									5.43		1.99	21				10	6	1
CHATSWORTH	73.6		100	26	52	8	6		10.87		2.11	8				8		
CLAYTON	74.5	1.2	106	26	55	7+	6		9.28	4.14	4.09	1				9	6	3
CLINTON									4.85		1.58	11				10	6	2
CULVERS LAKE									4.11	-.42	1.50	12				8	6	1
DEEPWATER									5.59		1.68	1				8	7	2
ELIZABETH	74.0	0.6	103	26	51	6	6		5.89	1.52	1.28	5				11	8	3
ELIZABETHPORT									4.49		1.58	3				9	5	2
ESSEX FELS									6.53		1.88	23				9	8	2
FLEMINGTON	72.8	- 0.1	102	26	46	8	6		5.59	.85	1.88	21				11	5	2
FORTESCUE									4.45		1.76	1				8	5	2
FREEHOLD	73.8	0.9	100	26+	55	10	6		6.58	2.09	1.60	21				11	8	2
GREAT MEADOWS									2.95		1.20	11				7	4	1
GREENWOOD LAKE									2.59		1.28	6				8	3	1
HAMMONTON	74.4	0.3	102	26	50	24	6		10.63	5.94	5.39	20				9		
HIGHTSTOWN	73.0	0.8	100	26	52	8	6		4.71	.07	1.25	5				9	5	1
INDIAN MILLS 2 W	73.0	0.4	101	26+	51	9	6		7.75	2.01	2.62	20				10	6	3
IRVINGTON									5.09		1.27	12				10	7	1
JERSEY CITY	72.7	- 1.2	100	26	58	7+	5		2.71	- 1.73	1.00	3				8	3	1
LAKEHURST AIRPORT									4.58		1.88	20				8	4	2
LAKEWOOD	71.6		99	26	48	11	6		6.40	1.19	2.00	3				11	6	2
LAMBERTVILLE	72.8	0.5	98	27+	51	10	5		3.54	- 1.09	1.23	12				12	5	1
LAYTON 3 NW	69.6	0.9	101	26	44	10	5		3.78	-.39	1.64	5				8	4	2
LITTLE FALLS WATER CO	73.6	1.5	100	27+	51	8	6		5.07	.28	1.28	13				8	6	2
LONG BRANCH	73.0	1.3	101	26	54	8	6		5.41	.60	1.46	22				9	4	3
LONG VALLEY	70.6	1.2	100	27	45	8	5		2.72	- 2.31	.90	6				8	4	
LUMBERTON									6.61		1.60	4				12	7	3
MACOPIN INTAKE									5.16		1.50	6				9	6	2
MANVILLE									5.03		1.80	3				8	7	1
MARLBORO									6.13		2.34	22				10	7	1
MARLTON 1 W									3.86		1.36	1				8	5	1
MAYS LANDING									8.05		3.95	20				10	8	1
MIDLAND PARK									3.51		1.16	12				8	4	2
MILLVILLE									6.79		2.98	20				9	6	3
MILLVILLE AIRPORT	73.8		101	26	56	7+	6		5.72		2.71	20				3	5	2
MILTON									5.94		2.08	23				13	5	2
MOORESTOWN	72.6		98	26+	54	9	5		6.06	1.15	2.01	4				1	6	2
MORRIS PLAINS	72.6		101	27	48	8+	6		7.24		2.40	21				11	5	3
NEWARK WB AIRPORT	74.7	1.7	103	26	57	7+	6		4.35	.57	1.03	12				10	7	1

See reference notes following Station Index

NEW JERSEY

AUGUST 1948

TABLE 2 — Continued
CLIMATOLOGICAL DATA

STATION	TEMPERATURE, IN DEGREES FAHRENHEIT								PRECIPITATION, IN INCHES										
	MEAN	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	NO. OF DAYS		TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOWFALL (UNMELTED)			NO. OF DAYS			
							MAX. 90° OR ABOVE	MIN. 32° OR BELOW					TOTAL	GREATEST DEPTH ON GROUND	DATE	.01 INCH OR MORE	.25 INCH OR MORE	1.00 INCH OR MORE	
NEW BRUNSWICK	73.4	1.2	99	26	53	8	6		7.51	2.50	3.10	21				11	7	2	
NEW MILFORD									2.79	1.75	1.71	12				9	2	1	
NEWTON	70.6	0.2	99	27	45	8	5		4.15	.25	.95	6				9	6		
OAK RIDGE RESERVOIR									6.89		2.32	21				9	5	4	
ORANGE									5.16		1.57	12				11		1	
PATERSON	75.3	3.0	103	26	55	7+	7		4.78	.03	1.72	13				9	5	2	
PEMBERTON 1 E	73.4	0.9	97	26+	53	8	5		7.14	2.36	1.40	1+				13	8	3	
PHILLIPSBURG	72.5	0.8	100	26+	51	8	6		3.96	.64	1.54	5				9	4	1	
PHILLIPSBURG BRIDGE									4.43		2.35	6				9	3	1	
PLAINFIELD	72.6	0.7	101	26	50	7+	5		7.29	2.24	1.95	20				9	7	3	
PLAINSBORO									5.20							7			
PLEASANTVILLE	73.6d	1.5	102	27	53	16	7		10.76	5.60	3.50	20				9	7	4	
QUAKERTOWN									7.90		1.57	20				11	8	4	
RAHWAY									5.64		1.72	3				10	6	2	
RIDGEFIELD	73.4	1.4	102	26	52	7+	5		4.33	.14	2.47	12				8	5	1	
RINGWOOD									2.42		1.17	6				11	2	1	
RUNNEMEDE	73.2		99	28	53	10	6		4.75		1.40	1				10	6	2	
RUNYON			101	26		7			4.40	.32	.91	6				8	7		
RUTHERFORD	74.9		103	26	54	8	6		4.57		2.49	13				9	6	1	
SANDY HOOK	74.4	1.9	98	28	60	8	6		4.85	.13	1.65	3				8	6	1	
SOMERVILLE	73.0	0.7	100	26	50	7+	6		5.01	.20	1.77	3				9	5	2	
SPLIT ROCK POND									8.38		2.83	23				8	5	4	
SPRINGFIELD									5.20		1.53	12				8	6	1	
SUSSEX	71.9	1.8	99	26	46	8	5		4.01	.46	1.07	12				9	6	1	
SWEDESBORO									5.25		1.56	1				10	8	2	
SWEDESBORO 5 NW									5.35		1.43	20				11	7	3	
TOMS RIVER									8.00	2.29	2.00	3				13	7	3	
TRENTON NO 2	72.3f	1.2	94	25	55	8	1		4.86	.04	1.28	3				10	5	2	
TRENTON WB	74.2	1.2	99	26	57	8	6		4.71	.04	1.13	5				10	5	2	
VINELAND									10.50	5.76	4.07	20				11	6	4	
WANAQUE RAYMOND DAM									2.70		1.32	6				7	4	1	
WATCHUNG									6.53		2.31	20				10	6	2	
WESTFIELD									5.14		1.12	3				11	7	1	
WOODCLIFF LAKE									3.49	.81	1.33	12				8	5	1	
WOODSTOWN 2 NW	73.6		98	28+	57	7+	6		5.56		1.32	1				10	7	1	
STATE	73.2	1.2	106	26	41	3+	6		5.60	.88						9	5	2	

See reference notes following Station Index

TABLE 3

DAILY PRECIPITATION

NEW JERSEY
AUGUST 1948

STATION	DAY OF MONTH																															TOTAL	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ATLANTIC CITY WB	1.34	.07	.70	.63	.19							.33								4.97												8.23	
BELLEPLAIN	1.57	.48	.31	3.80	.31	T						.27	T							1.30												8.04	
BELMAR	.86	T	1.57	.34	.06	T	.11		.01			.16	T			T	T		.01	2.13	.57	.88	T	T								6.70	
BELVIDERE	T		.10		1.80	.03						.65	T						.54	.49	.85	.04										4.55	
BERLIN 1 W	.31		1.82	.68	.37														.18	.50												3.86	
BOONTON	.14	.05		.08	T	1.39						.62	.99							T	2.04	.03	.72									6.06	
BRIDGETON	1.60	.12	.41	3.00	T							.41	.19						.24	.56		T								T		6.53	
BRIDGETON NO 2	1.64	1.23	T	1.45	.65	.50						.95	.05						.35	.90	T		.03							T		7.75	
BROOKLAWN	1.21		.61	.76	.09							.12							.08	1.59												4.46	
BURLINGTON	.12	T	.95	.38	.25	.55		.24				.20								.72	.18	.51	T									4.10	
CANISTEAR RESERVOIR						.68						.77	.25						.01	.66		2.70									.01	5.08	
CANOE BROOK	.18	.10		.62		.76	.02					.76	.52						T	T	1.77	.01	.64									5.38	
CANTON	.02	2.00		2.02	.31		.08					.30	.04						.28	.20		.51									.05	5.81	
CAPE MAY	3.00	.67	.80	1.55	.48							.25							.03	1.67												8.45	
CEDAR GROVE	.23	.12		.52		.63						1.10	1.85								.52	.03	.54									5.54	
CHARLOTTEBURG	.01				.05	1.19						1.09	.39	.03						.05	.65		.49								.03	3.98	
CHATHAM	.18	.09	T	.72		.68	.01					.59	.69						T	1.99	.01	.47										5.43	
CHATSORTH	1.86	T	*	1.69	.61			2.11				1.72								1.92	.21		.75									10.87	
CLAYTON	4.09	.15	.63	.75	1.06							1.36							.22	.94	.08		T									9.28	
CLINTON	.35		.40		.32	.03			T			1.68	.18						.14	.36	1.27	.12										4.85	
CULVER'S LAKE					.52	.52						1.50	.02						.24	.35	.51	.45									T	4.11	
DEERWATER	1.68		1.24	.34	.58						.53	.07						.47		.58												5.59	
ELIZABETH	.50		1.10	.29	1.28	.21						1.10							.03	.45	.47	.44	.02									5.89	
ELIZABETHPORT	.30		1.58	.03	1.54							.49							.02	.30		.20										4.49	
ESSEX FIELDS	.18	.32		.44		.70	.40					.64	.87								1.10		1.88									6.53	
FLEMINGTON 2 NE	.39	T	1.80	.11	.21	.07			.02			.63								.31	1.88	.14	.03									5.59	
FORTESCUE	1.76	.34	.12	1.31	.22							.26		*					.19	.25	T											4.45	
FREEHOLD	.89	T	.67	.29	.22	.32	.04		T			.41	.15							1.00	1.60	.99										6.58	
GLASSBORO	2.19	*	*	.58	.65							.03	.19			.24		.54		.01	.39	.31										2.95	
GREAT MEADOWS			.05	.79							1.20							.20															
GREENWOOD LAKE						1.28	.20					.19	.36	.03					.06		.43		.04									2.59	
HAMMONTON	2.06	.62	*	*	1.38						.69	T								5.39	T		.34								.15	10.63	
HIGHTSTOWN	.92		.96	.11	1.25		.13		.07			.48								.72		.07										4.71	
INDIAN MILLS 2 W	1.86	.04	.42	1.03	.18			.05	T			.88							.13	2.62	T	.54										7.75	
IRVINGTON	.28		.66	.01	.78							.07	1.27						.92	.33	.10	.67										5.09	
JERSEY CITY	.40		1.00	.12	.20							.62								.21		.12										2.71	
LAKEHURST AIRPORT	.43		1.56	.23	.33		.09					.04								1.88	.02											4.58	
LAKEWOOD	.83		2.00	.57	.11	.08			.08			.38	.02						1.60	.14		.59										6.40	
LAMBERTVILLE	.63		.48	.04	.34	.01	.02					1.23			.06				.02	.50	.09	.12										3.54	
LAYTON 3 NW			.02		1.64	.28						1.12							.06	.16	.45	.05										3.78	
LITTLE FALLS WATER CO	.24	.01		.28		.73						1.20	1.28							.39			.94									5.07	
LONG BRANCH	.91	.01	1.01	.22	.20							.03	.15	T						1.42	T	1.46										5.41	
LONG VALLEY		.20		.05	.90							.67	.30						.05	.50		.05										2.72	
LUMBERTON	1.27		1.60	.30	.67		.52					.06	.06						.03	.19	.64	.24										6.61	
MACOPIN INTAKE	T				1.50							.70	1.14	.31	.04				.01	.12	.70		.64								T	5.16	
MANVILLE	.45		1.80	.55	.40							.03	.65							.79		.36										5.03	
MARLBORO	.84		.51	.07	.44							.63						*	.03	.83	.44	2.34										6.13	
MARLTON 1 W	1.36		.30	.70	.53		.08					.18							.19	.52	T											3.86	
MAYS LANDING	.75	.41	.34	.97	.50	.01						.45								3.95	.55											8.05	
MIDLAND PARK	.05				.45							.50	1.16	.21					.02	.07		1.05										3.51	
MILVILLE	1.35	.02	1.06	.57	.31							.45							.04	2.98												.01	6.79
MILVILLE AIRPORT	1.04	.05	.67	.59	.11						T	.52							.03	2.71	T											T	5.72
MILTON	.03		.02				.84	.03	.25			.32	.79	.06					.18	1.16	T	.23	1.45	.02	2.08	.03							5.94
MOORESTOWN	.31	.76	.08	2.01	T	.88		.03	.25			.12	.03	T					.01	.15	2.40		.75									.01	6.0

NEW JERSEY
AUGUST 1948

See reference notes following Station Index

TABLE 4 — Continued

HOURLY PRECIPITATION

NEW JERSEY
AUGUST 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
QUAKERTOWN									.02	.02				.30	.08		.11								.53
RAHWAY												.01	.02	.02	.08	.27	.81	.49	.01						1.71
SANDY HOOK													.01		.11		.01	.09	.08						.30
SPRINGFIELD														.09	.11	.29	.20	.08							.78
TRENTON WB CITY								.01		.03			.03	.10	.22	.35	.39		.04	.17	.98	.01			1.13
WANAQUE RAYMOND DAM												.01	.01	.02	.07	.28	.17	.03	.01						1.23
WATCHUNG										.03	.01		.09	.02	.12	.10	.35	.28	.02						.64
WESTFIELD													.01	.01			.01	.01	.24	.17	.17				.98
WOODCLIFF LAKE																									.62
-6th-																									
CHARLOTTEBURG	.01												.01		.12	.11	.07								.31
WANAQUE RAYMOND DAM		.08															.05								.09
WESTFIELD																									.05
WOODCLIFF LAKE				.05				.01																	.06
-7th-																									
FREEHOLD																.05									.05
LAKEHURST AIRPORT																	.02	.07							.09
LUMBERTON																			.37	.14	.01				.52
TRENTON WB CITY										.02		.01				.06	.03	.10					.01		.20
WATCHUNG																									.03
-11th-																									
ELIZABETHPORT																			.01	.01	.02				.03
GLASSBORO																			.01	.01	.01				.03
GREAT MEADOWS							.58	.02		.03	.02					.04	.05		.01	.28	.17				1.20
IRVINGTON																				.06		.01			.07
LITTLE FALLS WATER CO																				.11					.11
LONG BRANCH																						.02	.01		.03
LUMBERTON							.02					.01		.01	.01	.01									.06
NEWARK WB AIRPORT																				.05					.05
NEW MILFORD																				.01		.07	.08		.16
ORANGE																				.02	.21				.23
QUAKERTOWN																	.06	.04	.30	.02	.04				.74
RAHWAY																			.02	.02	.01				.05
SPRINGFIELD																			.07	.12					.19
WANAQUE RAYMOND DAM																			.04	.04	.02	.07	.07	.02	.20
WATCHUNG																				.06	.02				.08
WESTFIELD																			.03	.04					.07
WOODCLIFF LAKE																					.01	.36	.17		.54
-12th-																									
ATLANTIC CITY WB									.10	.03	.19	.01													.33
CAPE MAY										.01	.10	.04	.09	.01											.25
CHARLOTTEBURG												.02	.01			.02	.02	.21	.34	.32	.05	.05			1.04
ELIZABETHPORT				.02	.18	.14	.04	.26	.02		.04	.05													.49
FREEHOLD							.07	.02		.05								.13							.51
GLASSBORO				.08	.01	.03	.03	.02					.02												.19
IRVINGTON					.07	.76	.02	.02	.15	.05	.19	.01													1.27
LAKEHURST AIRPORT															.01		.03								.04
LITTLE FALLS WATER CO					.29	.30	.02	.02	.41	.53						.75	.05								2.37
LONG BRANCH							.04	.07	.01		.02			.01											.15
LUMBERTON													.06												.06
MARLBORO																.20	.01	.01	.04	.28		.09			.63
MILLVILLE							.10	.21	.11	.02	.01														.45
MILLVILLE AIRPORT 6			*	*	*	*		.40	*	*	*	*		.12											1.03
NEWARK WB AIRPORT					.26	.29	.05	.24	.01	.14	.04														1.74
NEW MILFORD					.04	.02	.62	.19	.01	.28	.29	.19	.01				.07	.02							1.57
ORANGE				.03	.06	.62	.03	.02	.28	.32	.21														.58
QUAKERTOWN					.02	.01	.01	.34	.14	.04	.01	.01													.60
RAHWAY				.03	.27	.17	.01	.02		.08	.02														.80
SANDY HOOK				.01	.01	.04	.19	.01	.01	.04	.01	.49	.01												1.53
SPRINGFIELD					.11	.40	.05	.28	.12	.55	.01			.01											.51
TRENTON WB CITY				.14	.33	.02	.01						.01			.23	.01	.01							.71
WANAQUE RAYMOND DAM					.05		.03	.03	.02	.33															.18
WATCHUNG					.43	.13	.06	.29	.09	.16	.34														1.50
WESTFIELD					.20	.47	.01	.13	.08	.13	.16														1.18
WOODCLIFF LAKE	.01					.08	.44	.30		.27	.14		.01			.03	.04	.02							1.34
-13th-																									
CHARLOTTEBURG				.08	.06	.02						.01		.01											.18
NEW MILFORD																		.06							.06
WANAQUE RAYMOND DAM															.01										.01
WOODCLIFF LAKE															.47	.01									.48
-16th-																									
-18th-																									
GLASSBORO																						.08	.16		.24
-19th-																									
GLASSBORO				.26	.15	.08	.04		.01																.54
GREAT MEADOWS																							.20		.20
LUMBERTON																							.03		.03
MARLBORO																							*		*
QUAKERTOWN			.08																						.08
-19th-																									
CAPE MAY					.01	.02																			.03
ELIZABETHPORT				.02																					.02
GREAT MEADOWS	.01																								.01
IRVINGTON					.02											.90									.92
LUMBERTON	.02	.01																							.03
MARLBORO																									.03
MILLVILLE	.04											.03													.04
MILLVILLE AIRPORT 6	*	.03																							.02
NEWARK WB AIRPORT					.01											.01									.14
ORANGE													.02	.12											

TABLE 4 — Continued

HOURLY PRECIPITATION

NEW JERSEY
AUGUST 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
RAHWAY			.02	.01			.04	.01																	.08	
TRENTON WB CITY	.01																								.01	
-20th-																										
ATLANTIC CITY WB						.03	.24	.03	1.42	1.94	.86	.26	.19												4.97	
CAPE MAY			.01	.04	.73	.02		.05	.77	.01		.01	.01									.26	.10		1.63	
CHARLOTTEBURG													.01	.01											.40	
ELIZABETHPORT								.02	.04	.02	.04	.04	.03	.01											.30	
FREEHOLD							.14	.20	.20	.07	.12	.11	.10	.02	.01		.02							.08	.97	
GREAT MEADOWS								.02	.15	.01			.01		.01		.01	.01	.01	.03	.05	.05	.02	.01	.39	
IRVINGTON							.05	.05	.02	.03	.05		.03	.02		.06	.01	.01							.33	
LAKEHURST AIRPORT						.18	.21	.31	.20	.21	.74	.03						.19	.01						1.88	
LITTLE FALLS WATER CO								.02		.02			.03	.01	.01										.30	
LONG BRANCH							.03	.12	.10	.09	.07	.13	.28	.52	.08										1.42	
LUMBERTON			.02		.17	.49	.25	.14	.01	.04	.01									.01	.05				1.19	
MARLBORO					.01		.05	.16	.18	.05	.10	.06	.12	.10											.83	
MILLVILLE	.14	.08		.06	.70	1.18	.19	.01	.02	.16	.24	.20													2.98	
MILLVILLE AIRPORT 6	*	.09	*	*	*	*	2.28	*	*	*	*	*	*	.34											.30	
NEWARK WB AIRPORT							.03	.04	.04	.04	.02	.04	.03	.01		.05			.02						.09	
NEW MILFORD										.01	.01	.01	.01	.01	.01	.01									.52	
ORANGE										.04	.02	.03	.02	.08	.01	.01	.25	.01	.01	.01	.02				1.50	
QUAKERTOWN						.03	.03	.04	.04	.01	.01	.02	.04	.01	.01			.44	.28	.12			.42		.30	
RAHWAY							.08	.01	.03	.07	.02	.04	.03	.01						.01					.54	
SANDY HOOK							.02	.04	.07	.05	.07	.07	.05	.13	.02										.65	
SPRINGFIELD								.06	.02	.01	.03	.05	.02	.02		.35	.03	.02	.02	.02					1.04	
TRENTON WB CITY				.01	.08	.19	.08			.04	.01	.03	.01	.08	.36							.15			.25	
WANAQUE RAYMOND DAM															.01	.01		.02	.12	.01	.01	.07			2.31	
WATCHUNG							.05	.06	.01	.02	.05	.02	.01		1.20	.87	.01	.01							.61	
WESTFIELD							.06	.05	.03	.02	.03	.03	.01	.01	.02									.01	.06	
WOODCLIFF LAKE																.01		.01	.02							
-21st-																										
CHARLOTTEBURG	.18	.01				.01	.02	.03																	.25	
FREEHOLD	.01	.01	.01	.56	.78	.21																			1.58	
GREAT MEADOWS	.01	.28		.01	.01																				.31	
IRVINGTON	.08	.01						.01																	.10	
LAKEHURST AIRPORT	.02																								.02	
LITTLE FALLS WATER CO	.02	.04	.01		.01											.11	.07	.01	.45						.08	
LUMBERTON																									.64	
MARLBORO				.18	.16	.10																			.44	
NEWARK WB AIRPORT	.34		.01																						.35	
ORANGE	.04	.17																							.21	
QUAKERTOWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RAHWAY																									.02	
SANDY HOOK				.01	.01											.04	.02								.07	
SPRINGFIELD	.01																								.18	
TRENTON WB CITY	.02	.07	.01	.02	.02	.04	.01																		.17	
WATCHUNG	.13			.01	.01	.01	.01																			
WESTFIELD																										
-22d-																										
CHARLOTTEBURG																			.18	.25					.43	
ELIZABETHPORT																.01	.18	.01							.20	
FREEHOLD																		.94				.01			.95	
IRVINGTON																		.65	.02						.67	
LITTLE FALLS WATER CO																.45	.48	.02							.95	
LONG BRANCH																		.09							1.46	
LUMBERTON																		.21	.03	1.37					.24	
MARLBORO																		2.28	.06						2.34	
NEWARK WB AIRPORT																.22	.03								.25	
NEW MILFORD																	.01		.08	.01					.10	
ORANGE																.64	.01								.65	
QUAKERTOWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RAHWAY																		.70	.01						.71	
SANDY HOOK																			.61						.61	
SPRINGFIELD																		.95	.01	.01					.97	
TRENTON WB CITY																.01				.01					.02	
WANAQUE RAYMOND DAM																.06	.08	.05							.19	
WATCHUNG																	.39	.01							.40	
WESTFIELD																.01	.32	.01							.34	
WOODCLIFF LAKE																		.06	.18						.24	
-23d-																										
FREEHOLD			.01	.01	.01	.01																			.04	
ORANGE					.01																				.01	
SANDY HOOK	.01																								.01	
WOODCLIFF LAKE				.01					.01																.02	
-31st-																										
MILLVILLE										.01															.01	

See reference notes following Station Index

TABLE 5
DAILY TEMPERATURES (° FAHRENHEIT)

NEW JERSEY
AUGUST 1948

STATION		DAY OF MONTH																															MEAN
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ATLANTIC CITY WB	MAX MIN	74 68	76 67	74 68	72 67	77 63	76 59	78 60	74 64	77 64	75 62	77 68	73 68	85 68	82 64	79 61	78 64	74 68	76 67	78 70	73 68	78 67	78 69	79 66	80 69	86 72	97 75	90 76	94 76	97 79	86 73	77 65	79.7 67.6
BELLEPLAIN	MAX MIN	82 69	84 69	82 69	80 68	83 66	81 56	78 56	81 57	83 54	84 55	83 56	80 70	85 63	82 59	85 53	84 61	80 59	86 65	80 66	85 61	82 60		85 56	89 60	100 73	101 75	99 66	98 75	94 66	90 65	85.5 62.9	
BELVIDERE	MAX MIN	82 70	90 66	80 64	74 65	74 62	76 59	73 53	84 68	75 64	83 51	82 53	86 66	85 66	83 59	88 57	85 56	81 59	85 65	75 69	81 64	80 66	87 62	90 63	97 67	103 68	99 66	98 68	95 72	90 65	85 65	85.0 62.8	
BOONTON	MAX MIN	86 67	75 64	84 63	80 64	79 64	71 61	74 55	75 51	79 56	81 52	81 50	81 55	81 64	82 57	80 60	87 55	84 53	80 55	79 58	82 63	73 62	83 62	82 57	86 55	87 53	94 72	100 67	98 70	98 67	95 65	85 65	83.3 60.1
BRIDGETON	MAX MIN	75 70	82 67	79 71	76 69	79 64	76 59	79 68	78 57	81 60	82 59	81 69	83 64	79 61	83 62	80 60	83 67	80 72	80 64	75 61	81 64	80 64	84 65	84 65	90 68	97 73	96 71	96 71	94 71	91 68	84 64	82.1 64.9	
BURLINGTON	MAX MIN	83 55	86 67	78 57	77 68	76 64	80 59	80 60	82 56	82 68	88 69	84 58	83 69	85 67	84 62	92 62	88 62	87 64	88 62	87 65	86 68	88 65	83 65	88 71	95 65	102 73	101 70	100 76	98 75	93 68	90 68	87.1 65.3	
CANOE BROOK	MAX MIN	88 68	76 66	86 77	77 64	78 62	70 60	75 49	89 58	82 50	82 49	82 50	88 58	86 66	84 54	86 54	84 52	77 56	80 62	78 66	73 61	81 59	81 62	87 66	79 66	95 72	102 65	98 71	102 65	100 68	94 67	87 62	83.8 59.9
CAPE MAY	MAX MIN	83 70	81 69	77 69	72 68	79 67	75 62	79 66	80 65	79 61	79 60	78 65	75 64	84 70	81 69	80 72	83 69	80 68	79 65	82 66	80 72	80 71	82 66	81 66	81 64	87 70	93 74	94 75	95 76	92 75	88 75	82.3 68.4	
CHARLOTTEBURG	MAX MIN	80 64	85 65	80 58	77 63	75 62	70 58	73 47	79 61	79 64	79 44	79 43	76 65	83 62	79 64	84 54	81 49	77 46	80 53	73 65	82 60	80 53	83 60	87 56	93 66	97 71	95 65	95 62	91 70	83 58	77 60	81.6 57.9	
CHATSWORTH	MAX MIN	75 69	86 66	81 69	76 69	77 65	73 58	77 55	80 52	80 55	81 55	81 56	77 68	85 63	87 57	87 54	86 58	86 58	84 56	83 64	75 66	81 66	80 59	85 62	89 65	93 67	100 73	99 69	99 66	96 75	93 64	85 64	84.4 62.7
CLAYTON	MAX MIN	74 69	85 66	81 70	73 68	81 65	78 65	78 55	83 56	82 55	83 55	83 56	81 59	85 61	81 60	86 61	85 59	80 63	78 64	83 66	84 62	82 64	84 63	86 63	93 67	106 74	99 70	100 72	95 70	94 68	88 68	84.8 64.2	
ELIZABETH	MAX MIN	82 68	87 65	83 64	75 67	78 65	76 51	80 53	82 53	84 55	84 55	83 55	81 55	85 62	84 67	88 59	86 60	79 58	80 61	81 65	76 63	81 65	82 64	86 60	89 63	95 69	103 70	101 69	100 70	96 73	96 66	83 68	85.4 62.6
FLEMINGTON 2 NE	MAX MIN	80 68	85 65	81 64	77 68	75 62	76 58	78 53	84 46	82 51	84 50	81 49	81 66	86 64	81 57	88 54	89 52	80 50	81 58	85 61	78 63	81 64	81 64	87 60	87 62	95 68	102 70	100 63	99 65	93 67	83 65	80 65	84.8 60.7
FREEHOLD	MAX MIN	78 70	86 65	83 68	70 68	70 64	74 58	78 56	82 55	84 57	81 55	80 57	79 67	85 65	88 59	85 60	85 63	77 62	79 63	84 67	79 63	80 63	80 63	85 62	88 61	94 67	100 72	100 70	100 71	95 75	90 67	84 67	84.0 63.7
HAMMONTON	MAX MIN	88 69	84 65	88 63	83 66	79 68	78 55	81 54	84 54	84 55	81 55	85 61	82 62	86 57	83 59	88 56	89 58	78 60	82 64	86 62	83 62	84 63	85 60	86 50	88 62	93 64	102 70	101 68	100 74	97 65	94 64	83 63	86.6 62.2
HIGHTSTOWN	MAX MIN	78 68	84 65	77 66	71 67	71 64	75 58	78 54	82 52	83 56	82 54	83 54	80 67	85 66	81 58	85 57	85 58	75 61	80 60	85 63	73 66	78 63	83 61	84 63	88 67	93 71	100 67	99 69	99 73	94 65	91 65	80 65	83.3 62.6
INDIAN MILLS 2 W	MAX MIN	73 69	85 66	82 69	72 68	76 65	75 58	77 54	82 52	82 51	83 52	81 52	77 68	84 57	81 58	86 54	86 55	78 57	80 65	85 65	75 63	81 65	81 65	85 61	85 65	93 67	101 73	101 67	99 66	94 64	81 65	83.8 62.2	
JERSEY CITY	MAX MIN	73 68	84 66	75 64	74 67	73 65	70 61	75 58	78 59	80 60	80 59	75 60	73 68	82 68	81 63	82 62	82 65	75 61	73 63	71 65	77 64	76 64	82 61	80 64	92 69	100 74	99 75	97 76	93 75	86 71	78 58	80.3 65.1	
LAKEWOOD	MAX MIN	80 69	83 64	81 68	71 67	71 64	74 55	78 54	78 53	81 57	80 51	77 48	80 68	85 61		84 55	81 64	74 60	76 55	82 66	76 63	77 58	78 58	82 60	84 65	92 70	99 65	98 65	98 64	94 61	86 61	82.4 60.9	
LAMBERTVILLE	MAX MIN	72 70	85 61	81 67	74 69	71 63	77 60	77 52	80 52	80 54	79 51	82 53	80 68	84 66	80 57	85 56	85 57	81 55	81 68	82 69	76 65	81 65	81 61	84 61	87 64	92 67	97 68	98 65	98 68	93 71	88 65	81 62	83.2 62.4
LAYTON 3 NW	MAX MIN	82 57	85 54	81 54	75 58	70 55	75 56	75 48	80 45	82 47	80 44	83 48	81 63	80 52	80 50	74 52	84 51	81 48	79 62	84 62	75 64	85 62	81 62	85 60	88 63	99 62	101 57	98 60	95 58	92 63	84 55	80 55	83.0 56.1
LITTLE FALLS WATER CO	MAX MIN	95 67	87 66	87 65	80 65	78 64	71 60	76 53	77 51	83 53	83 53	84 53	82 67	80 64	85 60	81 60	84 57	86 55	78 60	79 65	80 65	72 68	86 65	85 62	86 57	89 63	96 71	100 70	100 67	98 73	95 65	87 65	84.8 62.4
LONG BRANCH	MAX MIN	73 69	86 65	77 69	72 69	71 64	73 58	78 55	77 54	80 57	78 58	79 62	82 69	81 66	85 61	80 62	75 61	75 65	78 67	72 67	78 67	78 63	81 63	82 63	93 68	101 70	98 71	97 72	94 75	90 69	79 65	81.3 64.6	
LONG VALLEY	MAX MIN	84 65	75 63	85 62	79 63	76 60	67 58	75 50	77 45	80 50	80 48	79 47	80 55	82 63	81 55	83 53	82 53	79 54	78 64	83 67	70 62	79 63	79 56	83 60	81 65	94 70	100 68	98 63	97 69	93 65	87 63	82.1 59.1	
MILLVILLE AIRPORT	MAX MIN	76 67	85 68	81 67	74 66	83 59	76 57	73 56	81 58	83 57	82 56	81 58	86 69	81 64	85 61	87 59	85 56	78 58	79 61	85 65	78 64	83 61	80 61	85 61	84 62	92 67	101 70	99 71	99 70	96 71	93 66	81 63	84.4 63.1
MOORESTOWN	MAX MIN	73 68	84 67	82 71	72 65	73 64	75 58	77 54	61 57	81 56	80 56	83 69	78 66	84 61	80 61	84 59	86 59	78 64	80 59	83 66	76 62	82 62	79 66	85 62	87 63	83 68	98 74	98 68	97 68	92 73	90 65	78 59	81.9 63.4
MORRIS PLAINS 1 W	MAX MIN	83 67	85 65	85 62	77 66	75 63	74 59	76 56	78 48	82 52	82 51	84 54	83 65	82 60	84 54	82 58	84 58																

NEW JERSEY
AUGUST 1948

TABLE 5 — Continued
DAILY TEMPERATURE (°FAHRENHEIT)

STATION		DAY OF MONTH																															MEAN
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
RIDGEFIELD	MAX MIN	73 70	87 67	79 64	76 68	71 66	74 56	78 52	82 52	83 55	82 54	83 56	81 68	87 66	83 58	85 58	85 59	78 59	80 61	75 66	71 68	85 63	83 63	86 61	88 64	96 70	102 71	100 70	100 71	94 74	88 65	82 61	83.8 63.1
RUNNEMEDE 1 W	MAX MIN	72 68	86 65	85 71	73 66	77 63	75 58	78 54	82 54	83 55	83 53	83 56	80 68	85 65	82 56	85 57	86 58	80 58	82 57	83 63	77 67	83 60	82 65	82 62	86 62	93 67	98 74	98 65	99 67	95 72	92 64	81 65	84.1 62.4
RUNYON	MAX MIN	72 70	84 64	82 68	86 70	78 62	72 58	74 68	80 68	81 65	84 65	83 66	84 64	82 64	86 60	87 64	88 64	87 65	86 68	82 66	80 62	76 60	84 66	88 68	92 69	94 72	101 76	100 67	100 72	98 78	94 69	86 68	85.5 66.6
RUTHERFORD	MAX MIN	77 67	88 66	80 69	80 67	77 65	75 59	77 67	83 54	84 66	84 56	82 56	82 67	87 70	85 58	82 58	84 58	78 56	80 61	80 66	73 68	86 65	84 64	88 58	89 66	96 70	103 80	102 69	101 73	97 79	92 70	80 60	85.0 64.8
SANDY HOOK	MAX MIN	72 70	85 68	78 67	72 68	69 67	72 62	80 61	79 60	81 64	81 65	79 63	76 69	82 68	82 65	85 65	79 67	76 65	75 66	77 68	71 69	78 67	78 67	80 66	84 68	90 71	95 75	95 75	98 76	93 78	91 74	77 70	81.0 67.9
SOMERVILLE	MAX MIN	80 69	86 66	83 64	76 69	72 66	75 60	78 50	78 50	82 53	82 53	82 51	81 67	86 63	82 55	87 57	85 57	80 53	80 57	86 63	77 68	82 64	82 65	86 59	89 62	94 68	100 68	99 65	97 69	93 71	91 64	81 66	84.5 61.7
SUSSEX	MAX MIN	83 65	85 66	84 60	79 63	75 61	73 58	78 46	80 67	80 67	81 47	81 48	81 65	81 67	80 56	84 56	84 57	80 52	79 55	81 65	76 66	83 64	80 64	83 60	88 61	95 67	99 68	98 63	96 68	91 71	88 61	81 62	83.2 60.6
TRENTON NO 2	MAX MIN	74 69	85 66	76 69	72 67	73 65	76 59	78 57	82 55	82 60	81 58	82 57	80 68	86 68	81 60	87 62	85 61	81 63	82 64	85 64	74 67	80 65	82 66	86 62	87 63	94 69							81.2 63.4
TRENTON WB CITY	MAX MIN	73 68	84 67	75 69	71 68	72 61	75 60	77 60	80 57	81 62	80 60	80 60	77 68	85 67	81 62	84 64	85 64	77 63	80 64	83 65	73 68	77 66	80 66	83 64	86 65	94 69	99 74	98 75	98 75	94 77	91 72	80 62	82.4 65.9
WOODSTOWN 2 NW	MAX MIN	84 68	71 66	84 69	83 67	71 65	80 59	75 57	78 57	82 58	82 57	82 59	82 61	80 67	84 60	81 62	83 60	85 59	79 61	82 64	83 65	76 62	82 62	82 64	85 65	85 66	91 68	97 69	98 69	98 71	95 67	92 67	83.6 63.6

See reference notes following Station Index

TABLE 6
DAILY EVAPORATION (INCHES) AND WIND MOVEMENT (MILES) NEW JERSEY
AUGUST 1948

STATION		DAY OF MONTH																															TOTAL	DEPART- URE FROM NORMAL
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
CANOE BROOK	EVAP WIND	.132 2	.004 4	.176 4	.012 1	.048	.056 5	.084 7	.128 6	.160 1	.144	.144 1	.104 9	.040 6	.128 3	.128 2	.128 3	.096 1	.064 1	.096 6	.032 5	.074 1	.042 1	.160 1	.112 1	.064 1	.096 1	.128 1	.096 2	.096 1	.160 3	.160 3	3,082 83	
PLEASANTVILLE	EVAP WIND	.226	.090	.156 17	32		.096 14	.224 72	.192 35	.128 36	.208 9	.192 21	.128 55	.128 30	.160 32	.224 25	.256 15	.224 7	.032 31	.160 7		9	2	2	.100 7	.112 6	.096 13	.160 13	.192 11	.224 12	.160 4	.224 25	.224 10	4,316 558
MUNYON	EVAP WIND	.060 13	.080 14	.030 16	.120 12	10	.010 12	.060 10	.120 12	.160 8	.120 13	.010 10	.080 11	.160 12	.160 14	.180 6	.180 9	.180 16	.180 13	.180 12	.020 10		7		.080 7	.160 8	.180 8	.210 6	.200 8	.200 10	.180 6	.180 6	.160 8	3,640 313

TABLE 7
DAILY RIVER STAGES (FEET)

RIVER AND STATION	FLOOD STAGE	DAY OF MONTH																															HIGHEST (OR CREST)	DATE	LOWEST	DATE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
DELAWARE TRENTON	12	.6	.6	.5	.6	.6	1.1	1.7	1.6	1.2	1.1	.8	1.3	1.3	1.2	1.1	.8	.7	.4	.6	.7	1.2	1.2	1.6	1.2	1.0	.9	.8	.7	.5	.5	.4	1.7	7	.4	18

The following reference notes apply only to Table 7 - Daily River Stages:

Readings are made at approximately 7 a.m. (local time). They are provisional and subject to correction. Final and corrected stages will be published in the annual publication "Daily River Stages - Principal Rivers of the United States".

- a Obstructed by rough ice.
- b Frozen but open at gage.
- c Upper surface of smooth ice.
- d Ice gorge above gage.
- e Ice gorge below gage.

- f Shore ice.
- g Floating ice.
- b Pool stage.
- i Dry at gage.
- j Interpolated.

NEW JERSEY

AUGUST 1948

STATION INDEX

STATION	INDEX NO.	COUNTY	DRAINAGE	O LAT.	O LONG.	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
ATLANTIC CITY WB	0325	ATLANTIC	COASTAL	39 22	74 25	8	EST	MID	MID	75	75		U S WEATHER BUREAU	2 3 4 5
BASS RIVER STATE FOREST	0528	BURLINGTON	COASTAL	39 35	74 28		EST		6P		2		N J FORESTRY SERVICE	2 3 5
BELLEPLAIN	0690	CAPE MAY	COASTAL	39 16	74 52	49	EST	5P	5P	54	54		MRS ED C HOFFMAN	2 3 5
BELMAR	0721	MONMOUTH	COASTAL	40 10	74 02	19	EST		MID	7	7		CITY WATER DEPT	2 3
BELVIDERE	0729	WARREN	DELAWARE	40 50	75 05	289	EST	5P	5P	56	56		MISS C S HIXSON	2 3 5
BERLIN 1 MI W	0787	CAMDEN	MULLICA	39 48	74 56	70	EST		7A		7		SAMUEL H MC CULLEY	2 3
BOONTON	0907	MORRIS	PASSAIC	40 54	74 24	280	EST	8A	8A	40	58		JERSEY CITY WTR WKS	2 3 5
BRIDGETON	1028	CUMBERLAND	DELAWARE	39 26	75 14	30	EST	6P	6P	60	65		BENNET K MATLACK	2 3 5
BRIDGETON NO 2	1033	CUMBERLAND	DELAWARE	39 30	75 14		EST		8A				SEABROOK FARMS	2 3
BROOKLAWN	1106	CAMDEN	DELAWARE	39 53	75 07	30	EST		4P	7	7		C D SCOTT	2 3
BURLINGTON	1211	BURLINGTON	DELAWARE	40 04	74 51	12	EST	6P	6P	36	62		PUBLIC SERVICE E&G CO	2 3 5
CANISTEAR RESERVOIR	1327	SUSSEX	PASSAIC	41 07	74 30	1040	EST		8A				DIVISION OF WATER	2 3
CANOE BROOK	1335	ESSEX	PASSAIC	40 45	74 21	180	EST	9A	9A	18	18	18	N J DEPT OF CONSERV	2 3 5 6
CANTON	1343	SALEM	DELAWARE	39 28	75 25	8	EST		9A		2		GERTRUDE S WILLIS	2 3
CAPE MAY	1351	CAPE MAY	COASTAL	38 56	74 57	17	EST	5P	5P	23	60		RICHARD F UMFRIED JR	2 3 4 5
CEDAR GROVE	1472	ESSEX	COASTAL	40 52	74 13	400	EST		8A				J A PLUNKETT	2 3
CHARLOTTEBURG	1562	PASSAIC	COASTAL	41 02	74 25	760	EST	4P	4P	56	56		NEWARK WATER DEPT	2 3 4 5
CHATHAM	1590	MORRIS	PASSAIC	40 44	74 23	185	EST		8A	44	44		EDWARD P MOLITOR	2 3
CHATSWORTH	1598	BURLINGTON	COASTAL	39 48	74 32	90	EST	5P	5P	8	8		A L STEVENSON	2 3 5
CLAYTON	1708	GLOUCESTER	DELAWARE	39 39	75 06	120	EST	6P	6P	35	55		HARRY P CAMPBELL	2 3 5
CLINTON	1749	HUNTERDON	RARITAN	40 38	74 55	300	EST		6P		5		L W KLOCKNER	2 3
CULVERS LAKE	2130	SUSSEX	DELAWARE	41 10	74 47	760	EST		5P		47		L S DEPUE	2 3
DEEPWATER	2209	SALEM	DELAWARE	39 41	75 30		EST						DU PONT DE NEMOURS CO	2 3
ELIZABETH	2644	UNION	COASTAL	40 40	74 14	33	EST	5P	5P	69	69		UNION CO PARK COMM	2 3 5
ELIZABETHPORT	2652	UNION	PASSAIC	40 39	74 12	30	EST						SEWAGE TREATMENT PLT	2 3 4
ESSEX FELS	2773	ESSEX	PASSAIC	40 49	74 17	250	EST		8P		3		EDWARD T MIDI	2 3
FLEMINGTON 2 MI NE	3029	HUNTERDON	RARITAN	40 30	74 52	134	EST	5P	5P	51	62		DONALD YOUNG	2 3 5
FORTESCUE	3102	CUMBERLAND	DELAWARE	39 14	75 10	5	EST		5P				F A RODENBAUGH	2 3
FREEHOLD	3181	MONMOUTH	RARITAN	40 15	74 17	194	EST	5P	5P	44	44		FRANK J MOREAU	2 3 4 5
GLASSBORO	3291	GLOUCESTER	COASTAL	39 42	75 07		EST						PROF SANGREE	2 3 4
GREAT MEADOWS	3416	WARREN	RARITAN	40 52	74 55	510	EST						HENRY TOPOLESKI	2 3 4
GREENWOOD LAKE	3516	PASSAIC	PASSAIC	41 09	74 20	660	EST		7A				WATER SUPPLY COMM	2 3
HAMMONTON	3662	ATLANTIC	MULLICA	39 38	74 48	95	EST	5P	5P	16	42		J G WILSON	2 3 5
HIGHTSTOWN	3951	MERCER	RARITAN	40 16	74 31	100	EST	8P	8P	52	55		JAMES R PICKERING	2 3 5
HIGHTSTOWN PUMPING STA	3956	MERCER	RARITAN	40 17	74 32	75	EST						DEPT WATER & SEWERS	2 3 4
INDIAN MILLS 2 MI W	4229	BURLINGTON	MULLICA	39 48	74 45	100	EST	8P	8P	58	59		EDWARD ENTWISTLE	2 3 4
IRVINGTON	4260	ESSEX	COASTAL	40 43	74 15		EST						SEWAGE TREATMENT PLT	2 3 5
JERSEY CITY	4339	HUDSON	COASTAL	40 44	74 04	135	EST	MID	MID	50	50		JERSEY CITY WTR DEPT	2 3 5
LAKEHURST AIRPORT	4596	OCEAN	COASTAL	40 02	74 19	128	EST						U S NAVY	2 3 4
LAKEWOOD	4627	OCEAN	COASTAL	40 06	74 13	54	EST	6P	6P	44	44		GEORGE G WADDILL	2 3 5
LAMBERTVILLE	4635	HUNTERDON	DELAWARE	40 22	74 57	75	EST	6P	6P	61	61		GEORGE BAILEY	2 3 5
LAYTON 3 MI NW	4735	SUSSEX	DELAWARE	41 13	74 50	480	EST	6P	6P	47	47		A M DEPUE	2 3 5
LITTLE FALLS WATER CO	4887	PASSAIC	PASSAIC	40 53	74 14	157	EST	9A	9A	34	45		PASSAIC VALLEY WTR CO	2 3 5
LONG BRANCH	4987	MONMOUTH	COASTAL	40 18	74 00	34	EST	MID	MID	40	40		STORM WARNING DIS STA	2 3 4 5
LONG VALLEY	5003	MORRIS	RARITAN	40 48	74 46	660	EST	7A	7A	18	18		ARTHUR BACKMAN	2 3 5
LUMBERTON	5055	BURLINGTON	DELAWARE	39 58	74 48	25	EST						MARY ELLEN SERVAN	2 3 4
MACOPIN INTAKE	5071	PASSAIC	PASSAIC	41 01	74 24		EST		9A				HAROLD QUACKENBUSH	2 3
MANVILLE	5197	SOMERSET	RARITAN	40 33	74 34	50	EST		MID		3		R R STONE	2 3
MARLBORO	5244	MONMOUTH	COASTAL	40 20	74 14	120	EST						GEROW BRILL	2 3 4
MARLTON 1 MI W	5252	BURLINGTON	DELAWARE	39 54	74 55	90	EST		6P		7		DAVID GRISCOM	2 3
MAYS LANDING	5346	ATLANTIC	GREAT EGG HARBOR	39 27	74 44	50	EST		5P		4		ELMER EARLE	2 3
MIDLAND PARK	5503	BERGEN	PASSAIC	40 59	74 09	210	EST		MID		2		HARRY MITCHELL	2 3
MILLVILLE	5576	CUMBERLAND	MAURICE	39 24	75 03	60	EST		MID		8		L J GALLAHER	2 3 4
MILLVILLE AIRPORT	5581	CUMBERLAND	MAURICE	39 22	75 05	76	EST	MID		2	2		CIVIL AERO ADM	2 3 4 5
MILTON	5597	MORRIS	PASSAIC	41 01	74 32		EST		7A				JERSEY CITY WTR WORKS	2 3
MOORESTOWN	5728	BURLINGTON	DELAWARE	39 58	74 57	62	EST	MID	7A	85	85		JAPANESE BEETLE LAB	2 3 5
MORRIS PLAINS 1 MI W	5769	MORRIS	COASTAL	40 50	74 30	400	EST	4P	4P	3	7		JAMES C LONG	2 3 5
NEWARK WB AIRPORT	6026	ESSEX	COASTAL	40 42	74 10	11	EST	MID	MID	49	94		U S WEATHER BUREAU	2 3 4 5
NEW BRUNSWICK	6062	MIDDLESEX	RARITAN	40 29	74 27	99	EST	5P	5P	91	94		NEW JERSEY EXP STA	2 3 5
NEW MILFORD	6146	BERGEN	HACKENSACK	40 57	74 02	12	EST		MID		30		HACKENSACK WATER CO	2 3 4
NEWTON	6177	SUSSEX	DELAWARE	41 03	74 45	769	EST	8A	8A	65	65		C M WHEELER	2 3 5
OAK RIDGE RESERVOIR	6460	PASSAIC	PASSAIC	41 02	74 30	870	EST		4P				DIV OF WATER NEWARK	2 3
ORANGE	6560	ESSEX	PASSAIC	40 47	74 14	140	EST		MID		8		COUNTY ENGINEER	2 3 4
PATERSON	6775	PASSAIC	PASSAIC	40 55	74 10	100	EST	8A	8A	78	77		P J DEL VECCHIE	2 3 5
PEMBERTON 1 MI E	6843	BURLINGTON	DELAWARE	39 58	74 41	60	EST	5P	5P	19	19		CHARLES A DOEHLERT	2 3 5
PHILLIPSBURG	6974	WARREN	DELAWARE	40 41	75 12	182	EST	10P	10P	57	65		TOWN ENGINEER	2 3 5
PHILLIPSBURG BRIDGE	6979	WARREN	DELAWARE	40 42	75 12		EST		8A		9		JOINT TOLL BRDG COMM	2 3
PLAINFIELD	7079	UNION	RARITAN	40 37	74 25	120	EST	8P	8P	57	60		S K PEARSON	2 3 5
PLAINSBORO	7095	MIDDLESEX	RARITAN	40 19	74 36	110	EST		6P		7		WALKER-GORDON LAB	2 3
PLEASANTVILLE	7131	ATLANTIC	COASTAL	39 25	74 31	8	EST	9A	9A	25	50	25	N J DEPT OF CONSERV	2 3 5 6
QUAKERTOWN	7372	HUNTERDON	DELAWARE	40 34	74 57	645	EST		ar				WILLIS W VAIL	2 3 4
RAHWAY	7393	UNION	RAHWAY	40 36	74 15	20	EST		MID		9		LOUIS FONTENELLI	2 3 4
RIDGEFIELD	7545	BERGEN	HACKENSACK	40 50	74 00	80	EST	MID	7P	31	31		GEORGE P KIRSTEN	2 3 5
RINGWOOD	7587	PASSAIC	PASSAIC	41 08	74 16	305	EST		10A		1		NO JERSEY WATER SUPP	2 3
RUNNEMED 1 MI W	7817	CAMDEN	DELAWARE	39 51	75 04	42	EST	9P	6P				HENRY D MOSHER	2 3 5
RUNYON	7825	MIDDLESEX	COASTAL	40 26	74 20	18	EST	6P	6P	24	25	25	N J DEPT OF CONSERV	2 3 5 6
RUTHERFORD	7833	BERGEN	PASSAIC	40 49	74 07	51	EST	8P	8P	4	4		HAROLD SCOTT	2 3 5
SANDY HOOK	7869	MONMOUTH	COASTAL	40 28	74 01	22	EST	7P	MID	50	50		U S COAST GUARD	2 3 4 5
SOMERVILLE	8194	SOMERSET	RARITAN	40 35	74 18	65	EST	6P	6P	62	65		W E HAVER	2 3 5
SPLIT ROCK POND	8402	MILTON	ROCKAWAY	40 58	74 28		EST		10A				JERSEY CITY D P W	2 3
SPRINGFIELD	8423	UNION	COASTAL	40 43	74 18		EST		MID				N J DEPT OF CONSERV	2 3 4
SUSSEX	8644	SUSSEX	HUDSON	41 13	74 36	450	EST	6P	6P	50	53		MARSHALL HUNT	2 3 5
SWEDESBO	8680	GLOUCESTER	DELAWARE	39 45	75 19	75	EST		6P		2		E F HURFF CO	2 3
SWEDESBO 5 MI NW	8685	GLOUCESTER	DELAWARE	39 47	75 24	10	EST		NOON		2		SUN OIL CO	2 3
TOMS RIVER	8816	OCEAN	COASTAL	39 57	74 14	33	EST		5P		27		ROBERT F SNYDER	2 3

STATION INDEX — Continued

NEW JERSEY

AUGUST 1948

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. ° / '	LONG. ° / '	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
TRENTON NO 2	8878	MERCER	DELAWARE	40 14	74 46	105	EST	MID	MID	18	18		E H RISTOW	2 3 5
TRENTON WB CITY	8883	MERCER	DELAWARE	40 13	74 46	56	EST	MID	MID	76	76		U S WEATHER BUREAU	2 3 4 5 7
TUCKERTON	8899	OCEAN	COASTAL	39 36	74 20	23	EST	6P	6P	49	54		WALTER J WARREN	2 3
VINELAND	9135	CUMBERLAND	MAURICE	39 29	75 01	110	EST		5P	58	68		ROBERT JONES	2 3
WANAQUE RAYMOND DAM	9187	PASSAIC	PASSAIC	41 02	74 18	320	EST		8A		2		WATER SUPPLY COMM	2 3 4
WATCHUNG	9271	UNION	PASSAIC	40 40	74 25								BONNIE BURN SAN'TRM	2 3 4
WESTFIELD	9455	UNION	RAHWAY	40 39	74 21	135	EST		9A		9		TOWN ENGINEER	2 3 4
WOODCLIFF LAKE	9832	BERGEN	HACKENSACK	41 01	74 03	103	EST		MID		30		HACKENSACK WATER CO	2 3 4
WOODSTOWN 2 MI NW	9910	SALEM	DELAWARE	39 40	75 20	16	EST	6A	6A	2	12		CHARLES CLARK	2 3 5

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late for inclusion in this issue.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Data in Tables 3, 5 and 6 are for the 24-hours ending at time of observation. See the Station Index for observation time.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with windshield.
- 6 No recording gage, precipitation is measured at 6-hourly intervals.
- a, b, c, through i Number of days missing. a indicates one day missing, h indicates two days missing, etc.
- ar This entry in time of observation column in Station Index means after rain.
- r Station equipped with recording gage only. All amounts in Table 3 are from the non-recording gages, except for stations with this reference.
- x Daily precipitation totals in Table 3 are for the 24-hours ending at 1:30 A.M., E.S.T., of the following day.
- z Hourly amounts from recording gage at the same site may be found in Table 4.
- T Trace, an amount too small to measure.

Data in Table 4 were formerly published in the Hydrologic Bulletin for the North Atlantic District. Amounts in this table are from recording gages. Traces are not shown.

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CLIMATOLOGICAL DATA

NEW JERSEY

SEPTEMBER 1948

Volume LIII No. 9



WASHINGTON: 1948

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages -- mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U.S. Weather Bureau, Washington 25, D.C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

NEW JERSEY - SEPTEMBER 1948

A. E. White, Section Director - Trenton

GENERAL SUMMARY

September temperature averaged practically normal for the State, with most stations having departures of less than 1° . There were moderately warm periods from the 5th to 9th, 12th to 14th, and 18th to 20th. The 13th was the warmest day in most localities. One station had a monthly maximum of 95° and about half the stations had readings of 90° or higher. There were some cool mornings the latter part of the month with light frosts in north Jersey and in the cranberry bogs. One station, Layton, reported a minimum temperature of 28° and a killing frost on the 28th. Compared with other Septembers, however, the month was not characterized by unusually high or low temperatures.

The month was very dry though several previous Septembers have been drier in this State. Moderate showers fell around the 10th, after which there was no rain of consequence until the last day of the month. At Atlantic City, the 10th and 30th were the only days with measureable precipitation and the number of such days was unusually small throughout the State. Rainfall over the State averaged less than one third the normal amount. Many stations had less than an inch for the month. The rain which began on the 30th continued into the morning of October 1 and yielded fairly good amounts at some northern stations, partly relieving the droughty conditions which had developed. Dry soil during the month interfered with preparation of ground and sowing of winter grains and grasses but the weather was very favorable for harvesting of matured crops. Fresh vegetable from certain localities continued plentiful on the market until the end of the month. Due to adequate rainfall during the previous summer months, most staple crops made good yields. Sunshine was abundant and the month was free from destructive winds or storms of any kind.

TEMPERATURE

The monthly mean temperature of the State, as computed from observations of 43 stations, was 66.2° , which was 0.3° above normal. The highest temperature was 95 at Layton on the 13th, and the lowest, 28 , at Layton on the 22nd. The highest monthly mean temperature was 68.8° at Rutherford, and the lowest, 62.8° at Newton. The temperature departure from the normal for the year 1948, to date, for the State is -0.4° .

PRECIPITATION

The mean total precipitation of the State, as computed from observations of 45 stations, was 1.12 inches, which was 2.66 inches below normal. The greatest monthly precipitation was 2.08 inches, at Lambertville, and the least, 0.15 inches at Culvers Lake. The greatest amount of precipitation in any 24 consecutive hours was 1.26 inches at Sandy Hook on the 10th. The average for the Highlands was 0.86 inch; for the Red Sandstone Plain 1.10 inches; for the Southern Interior 1.27 inches; and for the Sea Coast 0.86 inch. The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, -1.72 inches; Red Sandstone Plain, 2.53 inches; Southern Interior, 4.13 inches; Sea Coast, 5.47 inches.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

NEW JERSEY
SEPTEMBER 1948

STATIONS	SEA LEVEL PRESSURE EXTREMES—INCHES				WIND				RELATIVE HUMIDITY AVERAGES				SUN- SHINE	DEGREE DAYS 65° BASE
	HIGHEST	DATE	LOWEST	DATE	AVERAGE SPEED M.P.H.	MAXIMUM SPEED M.P.H.	DIRECTION	DATE	1:30A EST	7:30A EST	1:30P EST	7:30P EST	PERCENT OF POSSIBLE	
ATLANTIC CITY WB	30.52	17	29.69	23	12.6	34	NE	24	79	84	67	78	67	40
LONG BRANCH	30.51	17	29.68	20	10.8	29	NW	18	-	80	56	74	67	52
NEWARK WB AIRPORT	30.52	17	29.69	20	-	-	-	-	80	77	48	68	-	31
TRENTON WB CITY	30.51	17	29.71	20	6.7	23	W	9	-	77	49	-	56	46

TABLE 1
COMPARATIVE DATA

YEAR	TEMPERATURE			PRECIPITATION			YEAR	TEMPERATURE			PRECIPITATION		
	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE		MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE
1885	64.2	93	38	0.83	0.0		1918	62.2	90	29	3.84	0.0	9
1886	66.9	95	36	1.13	0.0		1919	65.8	96	32	3.26	0.0	8
1887	61.6	90	30	3.66	0.0	7	1920	66.8	90	30	3.87	0.0	7
1888	63.1	84	29	7.09	0.0	12	1921	70.2	99	36	2.35	0.0	8
1889	64.8	90	34	8.36	0.0	14	1922	66.7	95	27	2.26	0.0	4
1890	64.4	91	33	4.75	0.0	10	1923	67.0	90	28	3.78	0.0	7
1891	68.7	95	38	2.46	0.0	6	1924	62.2	99	29	5.42	0.0	10
1892	64.2	90	33	1.81	0.0	6	1925	67.8	96	25	2.92	0.0	7
1893	62.7	90	31	3.20	0.0	8	1926	64.5	93	32	4.18	0.0	10
1894	68.8	97	31	7.46	0.0	8	1927	65.6	97	29	2.66	0.0	5
1895	69.7	109	29	1.07	0.0	5	1928	62.6	90	29	4.52	0.0	10
1896	65.1	95	30	4.37	0.0	5	1929	67.0	100	28	4.74	0.0	8
1897	65.5	99	30	1.65	0.0	5	1930	69.4	95	32	2.14	0.0	8
1898	68.6	100	31	2.00	0.0	6	1931	70.5	100	34	1.98	0.0	6
1899	64.4	93	30	5.88	0.0	9	1932	66.4	100	27	2.29	0.0	7
1900	69.9	98	32	2.86	0.0	6	1933	68.0	93	38	6.07	0.0	10
1901	66.8	94	29	3.38	0.0	10	1934	67.3	91	35	9.00	0.0	13
1902	64.6	93	30	5.65	0.0	13	1935	63.2	89	27	6.12	0.0	8
1903	65.0	92	29	3.34	0.0	7	1936	66.9	94	28	4.30	0.0	8
1904	64.8	93	23	4.79	0.0	7	1937	63.4	98	29	2.63	0.0	6
1905	65.4	90	28	5.23	0.0	8	1938	63.6	95	30	9.67	0.0	13
1906	68.9	94	33	2.19	0.0	7	1939	66.5	98	31	1.49	0.0	8
1907	67.1	92	31	8.08	0.0	14	1940	63.5	93	25	4.41	0.0	5
1908	65.7	90	29	2.09	0.0	3	1941	67.5	98	26	0.28	0.0	2
1909	64.5	89	30	3.30	0.0	8	1942	66.1	96	25	4.55	0.0	8
1910	67.3	97	32	2.39	0.0	6	1943	65.0	98	26	1.85	0.0	6
1911	66.4	90	30	2.88	0.0	9	1944	66.8	99	28	7.93	0.0	9
1912	65.9	87	28	4.47	0.0	10	1945	69.0	96	39	4.68	0.0	10
1913	64.4	96	27	3.87	0.0	9	1946	67.5	92	34	3.34	0.0	6
1914	64.0	99	24	0.37	0.0	3	1947	67.0	95	19	2.68	0.0	8
1915	68.5	97	30	2.08	0.0	5	1948	66.2	95	28	1.12	0.0	4
1916	65.2	98	31	2.84	0.0	6	Period	66.0	109	23	3.73	0.0	8
1917	61.5	87	27	2.74	0.0	6							

NEW JERSEY

SEPTEMBER 1944

See reference notes following Station Index.

TABLE 4

HOURLY PRECIPITATION

NEW JERSEY
SEPTEMBER 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
HIGHTSTOWN PUMPING STATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QUAKERTOWN												-6th-						.19							.19
TRENTON WB CITY												-7th-							.24						.24
CHARLOTTEBURG												-8th-							.01	.02					.03
GLASSBORO																.01	.22	.01	.03	.01					.02
LUMBERTON																.10	.02	.01	.08	.01	.01	.04			.26
QUAKERTOWN																		.01	.02	.01					.26
WESTFIELD																									.04
CHARLOTTEBURG												-9th-													
ELIZABETHPORT												.01		.01	.01	.02	.07		.12	.04			.03		.12
FREEHOLD																			.05			.01	.01	.01	.19
GLASSBORO																						.02	.24		.08
GREAT MEADOWS																			*	*	*	*	*	*	.26
IRVINGTON																			.05	.03	.05	.17			.30
LAKEHURST AIRPORT																			.02	.04	.03	.01	.01		.11
LITTLE FALLS WATER CO																			.03	.02			.02	.02	.09
LONG BRANCH																			.01	.01					.02
LUMBERTON																		.01	.08	.06	.09	.08			.31
MARLBORO																			.02	.01		.01	.01	.03	.07
NEWARK WB AIRPORT																			.06	.01					.07
NEW MILFORD																				.01	.03	.01			.05
ORANGE																			.02	.02		.04			.08
QUAKERTOWN									.02	.02	.06		.02	.06	.05	.07									.30
RAHWAY																				.12	.05	.01			.18
SANDY HOOK																			.05	.11	.01			.01	.18
SPRINGFIELD																			.05	.04		.26			.35
TRENTON WB CITY																			.18		.01	.05	.05		.30
WESTFIELD																		.21	.05	.04	.01	.06			.37
ATLANTIC CITY WB												-10th-													
CAPE MAY																.04	.16	.03	.07	.03	.04	.01	.01		.39
ELIZABETHPORT																.04	.01	.10	.06	.07	.01				.30
FREEHOLD		.01	.01					.01			.08	.07	.07	.05	.19	.07	.02								.56
GLASSBORO	.01											.02	.05	.20	.31	.07	.03								.70
GREAT MEADOWS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.55
IRVINGTON												.01	.06	.05	.04	.02	.12	.04	.02						.36
LAKEHURST AIRPORT																.07	.03	.03	.01						.14
LITTLE FALLS WATER CO	.01											.01	.01		.02	.01	.10	.03							.19
LONG BRANCH															.03	.08	.10	.13	.03	.02		.01			.40
LUMBERTON															.01	.18	.27	.04	.04		.01		.01		.60
MARLBORO												.02	.01	.09	.26	.14	.39	.08	.06						1.05
MILLVILLE																	.24	.03	.01	.08					.36
MILLVILLE AIRPORT 6															*	*	*	*	*	.40					
NEWARK WB AIRPORT												.05	.07	.05	.04	.15	.05	.04							.45
NEW MILFORD									.01			.01	.01	.01	.02	.05	.07								.19
ORANGE										.01	.03	.02	.04	.01	.10	.06			.01						.27
QUAKERTOWN									.02																.02
RAHWAY												.02	.06	.10	.07	.04	.23	.06	.04						.62
SANDY HOOK												.02	.21	.32	.20	.39	.06	.04	.01	.01					1.26
SPRINGFIELD										.01	.07	.05	.04	.02	.12	.05	.01	.01							.38
TRENTON WB CITY										.03	.04	.22	.29	.21	.13	.02	.03								.97
WANAQUE RAYMOND DAM													.01	.01	.07			.04							.13
WATCHUNG													.05	.02	.04	.11	.02								.24
WESTFIELD										.03	.08	.05	.04	.08	.10	.03	.01								.42
WOODCLIFF LAKE													.01	.01	.03	.05	.10	.02							.22
WESTFIELD												-12th-							.06						.06
WOODCLIFF LAKE												-17th-	.01	.01											.02
CAPE MAY												-18th-													
CHARLOTTEBURG																			.05	.01					.06
ELIZABETHPORT																			.04	.01					.08
FREEHOLD																			.02	.01					.03
GLASSBORO																				.02					.02
IRVINGTON																	.01	.05				.01			.07
LITTLE FALLS WATER CO																			.05						.04
LONG BRANCH																				.11	.13				.05
LUMBERTON																				.09			.01		.24
MARLBORO																							.01		.10
MILLVILLE AIRPORT 6															*	*	*	*		.34	.01				.35
NEWARK WB AIRPORT																		.02	.01						.03
NEW MILFORD																			.06	.02					.08
RAHWAY																				.01	.01	.01			.03
SANDY HOOK																				.05					.05
SPRINGFIELD																			.01	.07					.08
WANAQUE RAYMOND DAM																				.06					.06
WATCHUNG													.01	.01	.01					.03			.01		.04
WOODCLIFF LAKE																			.13	.01					.17
CHARLOTTEBURG												-19th-													
NEWARK WB AIRPORT		.01									.01	.01													.02
NEW MILFORD																									.01
ORANGE	.01					.01												.02							.02

See reference notes following Station Index

TABLE 4 — Continued

HOURLY PRECIPITATION

NEW JERSEY
SEPTEMBER 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL							
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12								
WATCHUNG	.02												-20th-															.02				
WATCHUNG													.10															.10				
													-21st-																			
CAPE MAY				.03																		.01			.02			.01	.04			
CHARLOTTEBURG																													.03			
MILLVILLE AIRPORT 6										.02						* * *			* *			.02						.02				
NEW MILFORD																													.04			
WESTFIELD																													.04			
													-23d-																			
CHARLOTTEBURG																.02												.02				
													-25th-																			
LONG BRANCH							.10			.01	.01																	.12				
													-29th-																			
CHARLOTTEBURG													.01			.04	.03	.16	.10	.07	.01	.02	.04	.05	.07	.20	.76					
WATCHUNG																.01	.04	.03	.25	.18	.09	.02	.06	.01	.01		.70					
													-30th-																			
ATLANTIC CITY WB							.02			.02	.04	.01				.04			.10	.02								.25				
CAPE MAY				.02									.04			.02	.01	.01	.02	.02				.01			.01	1.26	1.44			
ELIZABETHPORT													.03			.14	.07	.07	.06	.02				.02			.02	.01	.45			
FREEHOLD													.01			.01	.03	.01	.01	.02				.02			.02	.01	.09			
GLASSBORO							.01			.06	.01	.01	.04	.03	.04	.01	.01	.02										.24				
GREAT MEADOWS													.03			.03	.07	.03	.04	.03	.01	.01				.05			.14	.04	.87	
HIGHTSTOWN PUMPING STATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
IRVINGTON													.13			.05	.09	.04	.02	.01				.03			.01	.36				
LAKEHURST AIRPORT													.05			.10	.02	.02	.02										.19			
LITTLE FALLS WATER CO													.08			.05	.10	.08	.08	.01	.03				.02			.04	.04	.53		
LONG BRANCH																.02			.01	.02										.05		
LUMBERTON										.02			.01	.01	.07	.03	.03	.01	.01				.02						.01	.22		
MARLBORO																.10			.01	.02										.13		
MILLVILLE							.10			.10	*	.04	.12	.04	*	.20	*	*	*				.08						.46			
MILLVILLE AIRPORT 6				*			*			*			*			*			*			*			.05			.03		.58		
NEWARK WB AIRPORT													.11			.13	.05	.09	.02	.01	.01				.02			.03	.01	.52		
NEW MILFORD													.03			.17	.03	.05	.08	.05	.01	.01				.03			.03	.03	.54	
ORANGE													.14			.22	.18	.16	.04	.06	.08				.03			.08	.02	.98		
QUAKERTOWN																.09			.10	.09	.09	.10	.01				.01			.02	.02	.55
RAHWAY																.19			.03	.02	.01				.03			.03		.25		
SANDY HOOK																.04			.04						.03			.03		.08		
SPRINGFIELD													.02			.12	.06	.10	.03	.02	.02				.03			.03		.44		
TRENTON WB CITY													.01			.10	.08	.09	.01	.01	.02				.12			.12		.56		
WANAQUE RAYMOND DAM																.02	.10	.14	.04	.02	.02	.01				.02			.03		.43	
WESTFIELD				.02												.10	.25	.08	.11	.01	.02				.01			.03	.01	.65		
WOODCLIFF LAKE																																

See reference notes following Station Index

TABLE 5

DAILY TEMPERATURES (° FAHRENHEIT)

NEW JERSEY
SEPTEMBER 1948

STATION		DAY OF MONTH																															MEAN
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ATLANTIC CITY WB	MAX MIN	73 56	75 60	75 63	78 69	79 72	79 71	80 72	80 71	80 72	76 62	73 61	79 66	79 70	78 63	71 57	68 59	71 61	84 66	84 68	85 70	75 62	66 52	66 51	63 55	65 51	67 53	69 52	71 56	73 57	69 66	74.4 62.1	
BELLEPLAIN	MAX MIN	77 49	80 45	82 49	83 53	83 59	84 55	88 62	88 57	88 66	86 60	77 58	87 58	88 59	86 65	78 51	74 45	76 41	87 62	84 65	87 60	85 64	72 46	70 43	67 49	68 39	71 39	75 45	77 43	81 43	71 57	79.9 52.8	
BELVIDERE	MAX MIN	83 52	82 47	86 58	83 57	88 59	86 61	86 66	87 67	90 66	72 63	80 55	82 52	93 60	84 64	78 45	77 51	79 45	90 60	88 61	84 63	75 62	75 39	71 40	64 52	75 62	80 40	85 41	83 44	88 45	70 60	81.5 54.6	
BOONTON	MAX MIN	80 46	76 46	77 49	81 55	79 55	85 55	84 58	81 62	84 62	86 63	72 53	78 50	82 52	89 56	80 44	73 46	72 41	86 57	85 62	80 54	68 37	69 41	70 45	63 48	72 38	77 37	82 41	82 45	84 55	78.3 49.7		
BRIDGETON	MAX MIN	76 52	77 52	80 54	79 60	84 63	82 61	82 65	85 64	85 68	78 61	72 58	82 58	85 64	80 67	73 54	74 52	74 50	85 61	82 65	85 64	77 64	68 49	70 47	69 53	67 47	75 44	77 47	78 48	80 50	71 60	77.7 56.7	
BURLINGTON	MAX MIN	81 52	79 50	84 54	83 59	88 63	86 60	87 70	86 64	89 67	88 67	82 58	88 58	90 62	88 68	80 55	79 56	78 48	88 60	85 65	85 65	62 62	45 50	50 52	40 40	48 48	45 45	49 49	50 50	58 58	56.7		
CANOE BROOK	MAX MIN	82 44	78 44	80 54	82 54	82 58	86 55	84 60	83 63	86 63	89 63	68 51	80 49	85 56	92 60	82 43	75 40	71 42	75 42	88 59	87 62	82 52	72 36	71 35	72 53	65 43	73 38	76 40	81 43	83 45	82 55	79.7 49.7	
CAPE MAY	MAX MIN	82 59	79 64	80 58	82 62	82 69	82 58	83 68	83 68	85 73	81 60	76 61	84 66	84 72	83 70	85 66	67 42	71 43	84 75	83 72	86 68	83 67	71 52	71 31	68 54	69 44	71 33	71 45	76 52	78 52	70 64	78.3 58.9	
CHARLOTTEBURG	MAX MIN	74 46	77 39	79 55	80 49	83 52	82 52	81 57	83 62	87 65	87 59	77 44	82 48	89 55	88 63	77 38	70 35	73 35	86 58	84 56	82 62	79 49	67 36	67 35	64 48	70 40	75 34	79 35	80 36	83 40	80 54	78.8 48.0	
CHATSWORTH	MAX MIN	78 48	81 43	80 48	84 54	86 59	84 54	85 62	87 60	87 64	89 61	78 56	82 58	90 62	84 50	78 48	75 48	78 48	89 62	85 61	84 63	86 56	71 42	73 43	64 48	71 43	66 48	83 40	82 43	83 44	72 55	80.2 52.4	
CLAYTON	MAX MIN	79 51	80 49	84 52	79 56	85 62	83 58	86 65	87 62	90 60	82 60	79 57	87 56	89 62	83 66	78 50	75 50	76 47	88 60	85 64	85 67	79 62	72 45	70 45	65 51	68 42	75 43	79 46	80 43	81 50	71 57	80.0 54.6	
ELIZABETH	MAX MIN	79 48	80 48	84 59	83 58	82 61	84 58	83 63	87 65	90 66	81 61	80 56	85 61	93 67	84 67	78 49	73 53	72 45	89 58	87 62	81 66	78 58	73 41	72 47	67 54	70 52	77 43	81 44	84 46	74 49	74 59	80.2 55.1	
FLEMINGTON	MAX MIN	79 47	78 43	83 52	82 51	86 57	85 60	86 62	89 65	87 61	80 50	84 48	91 56	82 62	75 46	73 48	75 48	88 65	88 61	82 59	78 38	72 42	71 52	65 38	73 47	77 36	82 47	82 48	84 57	69 57	80.4 51.9		
FREEHOLD	MAX MIN	77 48	79 50	80 55	82 60	85 60	83 57	83 61	85 64	88 59	82 54	79 56	85 56	90 61	84 65	77 51	70 45	75 57	87 66	85 62	81 59	78 42	70 41	69 53	63 44	72 41	79 46	80 46	83 50	73 59	79.1 54.1		
HAMMONTON	MAX MIN	80 49	81 47	83 49	84 54	85 55	86 58	87 60	88 60	91 54	82 59	79 54	89 55	91 56	83 65	78 46	75 46	78 42	88 58	84 62	86 67	82 60	73 42	72 41	68 46	73 46	75 39	82 39	84 42	83 45	81.8 51.6		
HIGHTSTOWN	MAX MIN	78 48	81 47	84 54	82 55	88 57	86 55	87 59	87 62	87 64	70 59	79 55	86 56	90 61	82 64	75 48	71 50	75 48	88 58	87 63	82 58	77 40	72 43	68 52	65 44	70 45	72 38	78 45	79 46	83 56	72 56	79.3 52.8	
INDIAN MILLS 2 W	MAX MIN	77 46	79 42	82 47	83 53	86 58	84 55	85 62	86 60	88 63	76 60	77 54	85 53	89 60	82 66	74 47	75 39	75 58	83 63	82 63	76 60	70 42	72 40	64 47	70 36	75 36	81 38	80 41	82 43	71 54	79.2 51.1		
JERSEY CITY	MAX MIN	75 53	75 56	74 63	76 62	78 64	77 63	75 66	79 68	84 68	71 60	77 58	83 66	84 66	79 59	68 53	70 55	82 48	83 61	76 65	69 68	67 54	66 45	66 45	62 51	70 52	70 46	79 52	79 55	75 62	74.8 57.6		
LAKEWOOD	MAX MIN	76 46	79 41	78 48	80 51	82 57	80 53	81 57	83 59	87 58	70 53	78 57	85 56	89 63	80 48	75 43	68 36	74 58	86 63	84 58	81 55	75 35	70 39	68 45	65 40	67 33	70 34	77 34	78 39	79 44	72 53	77.2 49.1	
LAMBERTVILLE	MAX MIN	79 48	78 46	82 54	84 58	81 55	85 60	85 66	84 67	88 62	79 67	84 62	90 57	85 60	77 65	73 45	75 48	87 61	84 63	81 63	79 58	70 38	72 39	66 50	74 41	77 39	81 43	83 47	86 58	71 53	80.1 53.3		
LAYTON 3 NW	MAX MIN	77 43	78 39	82 53	82 49	86 55	86 55	82 62	84 63	78 60	72 60	80 60	86 42	95 54	80 60	74 37	71 39	76 35	90 52	84 55	81 60	68 48	67 28	62 32	73 45	76 32	85 34	80 32	86 40	77 53	79.0 46.8		
LITTLE FALLS WATER CO	MAX MIN	82 52	79 48	79 58	81 56	88 59	86 58	86 64	84 62	87 64	89 62	68 54	80 60	91 67	83 45	77 49	74 45	75 62	87 60	87 63	82 54	70 38	72 40	70 53	66 48	78 39	78 43	84 47	83 57	84 57	80.5 53.2		
LONG BRANCH	MAX MIN	77 52	78 51	78 58	79 59	80 60	79 57	78 60	80 63	83 66	75 60	76 57	86 56	86 64	78 54	68 47	73 44	75 40	87 60	85 62	81 63	73 56	69 51	68 53	65 44	68 51	69 42	76 48	77 44	74 61	76.5 55.6		
LONG VALLEY	MAX MIN	79 43	80 44	77 43	81 50	79 53	86 52	83 57	82 63	85 61	87 60	64 49	78 46	82 54	89 60	80 42	73 44	71 38	72 48	86 58	85 60	78 51	68 36	70 37	68 43	62 33	70 34	76 37	80 41	83 54	82 54	77.9 48.0	
MILLVILLE AIRPORT	MAX MIN	76 48	78 51	82 52	83 56	85 61	84 58	85 65	87 61	90 67	75 60	79 56	86 63	89 60	82 51	76 46	75 45	87 63	83 65	85 64	74 46	71 44	65 48	69 42	75 41	80 42	82 44	79 48	72 46	72 56	79.4 54.2		
MOORESTOWN	MAX MIN	75 52	78 49	83 52	80 56	86 60	83 58	84 63	86 62	87 64	71 59	83 56	84 58	85 62	80 50	74 48	72 45	74 61	85 65	84 65	82 54	72 45	70 45	70 51	62 45	69 45	74 42	79 41	80 46	83 48	73 57	78.3 53.7	
MORRIS PLAINS	MAX MIN	77 48	73 45	80 45	83 49	85 53	85 53	81 60	85 63	86 61	83 53	79 51	83 57	89 64	89 43	84 43	7																

TABLE 5 — Continued
DAILY TEMPERATURE (°FAHRENHEIT)

STATION		DAY OF MONTH																															SEPTEMBER 1941	MEAN
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
RUNNEMEDE	MAX	77	82	84	80	86	85	87	87	89	69	81	86	90	82	76	74	76	87	84	82	74	71	71	64	70	74	79	79	83	72	79.4		
	MIN	48	46	50	55	59	57	62	61	63	60	55	54	60	62	48	47	45	59	64	62	56	42	42	48	39	40	39	43	45	55	52.2		
RUNYON	MAX	74	75	80	79	90	82	85	88	90	82	88	92	84	80	76	74	74	88	84	85	80	73	69	70	69	72	74	74	72	72	79.2		
	MIN	48	46	40	46	62	62	66	60	60	60	58	58	56	56	46	40	46	62	60	60	54	48	44	44	46	36	38	46	48	60	51.9		
RUTHERFORD	MAX	80	81	83	84	86	87	85	88	92	72	82	88	94	86	78	75	76	90	87	82	72	73	72	67	76	79	85	86	84	74	81.5		
	MIN	59		58	58	59	69	64	66	65	62	56	55	62	67	50	50	45	60	63	65	56	41	45	54	52	44	44	46	50	59	56.0		
SANDY HOOK	MAX	76	80	77	78	82	80	79	81	82	70	76	83	86	77	73	68	70	84	81	77	75	70	70	63	68	70	77	79	74	74	76.0		
	MIN	58	60	64	65	66	66	62	64	69	60	62	64	68	69	61	58	52	60	65	68	63	53	55	56	56	56	58	58	64		61.2		
SOMERVILLE	MAX	78	79	83	83	87	87	83	86	89	80	79	85	90	82	75	72	76	88	86	81	78	71	71	64	74	76	81	82	83	71	80.0		
	MIN	45	45	55	54	59	56	62	64	65	62	52	50	58	65	45	50	42	55	61	62	55	38	42	53	45	39	40	44	47	58	52.3		
SUSSEX	MAX	75	78	82	81	86	86	84	85	88	80	79	85	91	81	73	70	74	88	84	80	76	68	67	64	73	75	80	80	86	73	79.1		
	MIN	48	44	58	55	55	57	50	64	65	61	51	48	56	63	42	46	39	59	59	62	51	34	34	51	39	34	36	38	41	57	49.9		
TRENTON NO 2	MAX	76	78	81	79	86	83	85	85	88	69	80	85	90	81	75	73	75	87	86	82	74	71	72	65	70	75	80	80	84	71	78.9		
	MIN	52	55	60	60	64	60	63	66	66	60	57	59	63	63	52	53	47	61	65	65	59	44	45	51	47	45	45	49	51	59	56.2		
TRENTON WB CITY	MAX	76	78	81	79	86	83	83	84	87	69	78	85	89	80	74	70	74	86	84	81	71	69	67	62	68	72	78	78	82	72	77.5		
	MIN	52	55	60	60	64	60	64	66	68	61	59	61	65	60	55	55	51	63	66	66	55	46	47	54	49	47	48	52	55	60	57.5		
TUCKERTON	MAX										74	75	86	86	82	73	70	73	89	85	86	74	68	70	64	68	70	72	71	77	74	75.6		
	MIN										60	58	60	70	66	52	50	44	61	64	74	61	54	52	51	54	52	61	63					
WOODSTOWN 2 NW	MAX	78	75	76	81	76	85	83	85	85	87	68	78	84	89	79	73	73	75	85	85	83	70	70	70	65	67	74	78	79	81	77.9		
	MIN	52	51	52	54	60	61	66	64	67	67	57	56	54	54	53	50	61	64	64	64	47	47	54	47	45	44	46	50	50		55.5		

TABLE 6
DAILY EVAPORATION (INCHES) AND WIND MOVEMENT (MILES)

DAILY EVAPORATION (INCHES) AND WIND MOVEMENT (MILES)

NEW JERSEY

SEPTEMBER 1948

STATION		DAY OF MONTH																															TOTAL	DEPART- URE FROM NORMAL
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
CANOE BROOK	EVAP.	.128	.144	.080	.128	.048	.128	.208	.128	.080	.106	.014	.128	.096	.128	.160	.128	.096	.064	.036	.068	.080	.048	.128	.048	.112	.096	.080	.080	.080	.096	2,944		
	WIND	2	3	1	7	3	1	4	5	2	3		2	4	2	3	3	2	6	7	2	1	2	4		5	1	2	1	5	84			
PLEASANTVILLE	EVAP.	.192	.160	.160	.160	.128	.128	.128	.128	.160	.128	.048	.128	.160	.128	.320	.080	.128	.112	.128	.144		.096	.160	.128	.096	.064	.096	.080	.096	.066	3,730		
	WIND	17	2	33	39	64	10	3		20	6	26	5	2	32	8	22	15	29	41	17		5	3	27	8	18	18	6	21	497			
RUNYON	EVAP.	.180	.180	.180	.180	.180	.180	.180	.120	.060	.080	.180	.180	.180	.180	.160	.160	.180	.010	.180	.180	.180	.130	.180	.160	.160	.160	.160	.080	.020	4,570			
	WIND	3	3	4	4	3	3	3	4	4	3	4	5	4	5	3	3	4	5	5	6	5	4	5	4	4	5	6	5	6	6	127		

TABLE 7
DAILY RIVER STAGES (FEET)

RIVER AND STATION	FLOOD STAGE	DAY OF MONTH																														HIGHEST (OR GREST)	DATE	LOWEST	DATE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
DELAWARE TRENTON	12	.3	.4	.4	.3	.3	.2	.2	.1	-00.0	.4	.6	.5	.4	.2	.1	.2	.4	.3	.2	.3	.1	.1	.2	.3	.3	.3	.3	.1	-00.0	-00.0	.6	11	-00.0	9+

The following reference notes apply only to Table 7 - Daily River Stages:

Readings are made at approximately 7 a.m. (local time). They are provisional and subject to correction. Final and corrected stages will be published in the annual publication "Daily River Stages - Principal Rivers of the United States".

- a Obstructed by rough ice.
- b Frozen but open at gage.
- c Upper surface of smooth ice.
- d Ice gorge above gage.
- e Ice gorge below gage.

- f Shore ice.
- g Floating ice.
- h Pool stage.
- i Dry at gage.
- j Interpolated.

See reference notes following Station Index

STATION INDEX

NEW JERSEY

SEPTEMBER 1948

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT.	LONG.	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
ATLANTIC CITY WB	0325	ATLANTIC	COASTAL	39 22	74 25	8	EST	MID	MID	75	75		U S WEATHER BUREAU	2 3 4 5
BASS RIVER STATE FOREST	0528	BURLINGTON	COASTAL	39 35	74 28		EST		6P		2		N J FORESTRY SERVICE	2 3 5
BELLEPLAIN	0690	CAPE MAY	COASTAL	39 16	74 22	49	EST	5P	5P	54	54		MRS ED C HOFFMAN	2 3 5
BELMAR	0721	MONMOUTH	COASTAL	40 10	74 02	19	EST		MID	7	7		CITY WATER DEPT	3
BELVIDERE	0729	WARREN	DELAWARE	40 50	75 05	289	EST	5P	5P	56	56		MISS C S BIXSON	2 3 5
BERLIN 1 MI W	0787	CAMDEN	MULLICA	39 48	74 56	70	EST		7A		7		SAMUEL B MC CULLEY	3
BOONTON	0907	MORRIS	PASSAIC	40 54	74 24	280	EST	8A	8A	40	58		JERSEY CITY WTR WKS	2 3 5
BRIDGETON	1028	CUMBERLAND	DELAWARE	39 26	75 14	30	EST	6P	6P	60	65		BENNET K MATLACK	2 3 5
BRIDGETON NO 2	1033	CUMBERLAND	DELAWARE	39 30	75 14		EST		8A				SEABROOK FARMS	3
BROOKLAWN	1106	CAMDEN	DELAWARE	39 53	75 07	30	EST		4P	7	7		C D SCOTT	3
BURLINGTON	1211	BURLINGTON	DELAWARE	40 04	74 51	12	EST	6P	6P	36	62		PUBLIC SERVICE E&G CO	2 3 5
CANISTEAR RESERVOIR	1327	SUSSEX	PASSAIC	41 07	74 30	1040	EST		8A				DIVISION OF WATER	3
CANOE BROOK	1335	ESSEX	PASSAIC	40 45	74 21	180	EST	9A	9A	18	18	18	N J DEPT OF CONSERV	2 3 5 6
CANTON	1343	SALEM	DELAWARE	39 28	75 25	8	EST		9A		2		GERTRUDE S WILLIS	3
CAPE MAY	1351	CAPE MAY	COASTAL	38 56	74 57	17	EST	5P	5P	23	60		RICHARD F UMERID JR	2 3 4 5
CEDAR GROVE	1472	ESSEX	COASTAL	40 52	74 13	400	EST		8A				J A PLUNKETT	3
CHARLOTTEBURG	1582	PASSAIC	COASTAL	41 02	74 26	760	EST	4P	4P	56	56		NEWARK WATER DEPT	2 3 4 5
CHATHAM	1590	MORRIS	PASSAIC	40 44	74 23	185	EST		8A	44	44		EDWARD P MOLITOR	3
CHATSWORTH	1598	BURLINGTON	COASTAL	39 48	74 32	90	EST	5P	5P	8	8		A L STEVENSON	2 3 5
CLAYTON	1708	GLOUCESTER	DELAWARE	39 39	75 06	120	EST	6P	6P	35	55		HARRY P CAMPBELL	2 3 5
CLINTON	1749	HUNTERDON	RARITAN	40 38	74 55	300	EST		6P		5		L W KLOCKNER	3
CULVERS LAKE	2130	SUSSEX	DELAWARE	41 10	74 47	760	EST		5P		47		L S DEPUE	3
DEEPWATER	2209	SALEM	DELAWARE	39 41	75 30		EST						DU PONT DE NEMOURS CO	3
ELIZABETH	2644	UNION	COASTAL	40 40	74 14	33	EST	5P	5P	69	69		UNION CO PARK COMM	2 3 5
ELIZABETHPORT	2652	UNION	PASSAIC	40 39	74 12	30	EST						SEWAGE TREATMENT PLT	3 4
ESSEX FIELDS	2773	ESSEX	PASSAIC	40 49	74 17	250	EST		8P		3		EDWARD T MICK	3
FLEMINGTON 2 MI NE	3029	HUNTERDON	RARITAN	40 30	74 52	134	EST	5P	5P	51	62		DONALD YOUNG	2 3 5
FORTESCUE	3102	CUMBERLAND	DELAWARE	39 14	75 10	5	EST		5P				F A RODENBAUGH	3
FREEBOLD	3181	MONMOUTH	RARITAN	40 15	74 17	194	EST	5P	5P	44	44		FRANK J MOREAU	2 3 4 5
GLASSBORO	3291	GLOUCESTER	COASTAL	39 42	75 07		EST						PROF SANGREE	3 4
GREAT MEADOWS	3416	WARREN	RARITAN	40 52	74 55	510	EST						HENRY TOPOLESKI	3 4
GREENWOOD LAKE	3516	PASSAIC	PASSAIC	41 09	74 20	660	EST		7A				WATER SUPPLY COMM	2
HAMMONTON	3662	ATLANTIC	MULLICA	39 38	74 48	95	EST	5P	5P	16	42		J G WILSON	2 3 5
BIGHTSTOWN	3951	MERCER	RARITAN	40 16	74 31	100	EST	8P	8P	52	55		JAMES R PICKERING	2 3 5
BIGHTSTOWN PUMPING STA	3956	MERCER	RARITAN	40 17	74 32	75	EST						DEPT WATER & SEWERS	3 4
INDIAN MILLS 2 MI W	4229	BURLINGTON	MULLICA	39 48	74 45	100	EST	8P	8P	58	59		EDWARD ENTWISTLE	2 3 5
IRVINGTON	4260	ESSEX	COASTAL	40 43	74 15		EST						SEWAGE TREATMENT PLT	3 4
JERSEY CITY	4339	HUDSON	COASTAL	40 44	74 04	135	EST	MID	MID	50	50		JERSEY CITY WTR DEPT	2 3 5
LAKEHURST AIRPORT	4596	OCEAN	COASTAL	40 02	74 19	128	EST						U S NAVY	3 4
LAKEWOOD	4627	OCEAN	COASTAL	40 06	74 13	54	EST	6P	6P	44	44		GEORGE G WADDILL	2 3 5
LAMBERTVILLE	4635	HUNTERDON	DELAWARE	40 22	74 57	75	EST	6P	6P	61	61		GEORGE BAILEY	2 3 5
LAYTON 3 MI NW	4735	SUSSEX	DELAWARE	41 13	74 50	480	EST	6P	6P	47	47		A M DEPUE	2 3 5
LITTLE FALLS WATER CO	4887	PASSAIC	PASSAIC	40 53	74 14	157	EST	9A	9A	34	45		PASSAIC VALLEY WTR CO	2 3 5
LONG BRANCH	4987	MONMOUTH	COASTAL	40 18	74 00	34	EST	MID	MID	40	40		STORM WARNING DIS STA	2 3 4 5
LONG VALLEY	5003	MORRIS	RARITAN	40 48	74 46	660	EST	7A	7A	18	18		ARTHUR BACKMAN	2 3 5
LUMBERTON	5055	BURLINGTON	DELAWARE	39 58	74 48	25	EST						MARY ELLEN SERVAN	3 4
MACOPIN INTAKE	5071	PASSAIC	PASSAIC	41 01	74 24		EST		9A				HAROLD QUACKENBUSH	3
MANVILLE	5197	SOMERSET	RARITAN	40 33	74 34	50	EST		MID		3		R R STONE	3
MARLBORO	5244	MONMOUTH	COASTAL	40 20	74 14	120	EST						GEROW BRILL	3 4
MARLTON 1 MI W	5252	BURLINGTON	DELAWARE	39 54	74 55	90	EST		6P		7		DAVID GRISCOM	3
MAYS LANDING	5346	ATLANTIC	GREAT EGG BARBOR	39 27	74 44	50	EST		5P		4		ELMER EARLE	3
MIDLAND PARK	5503	BERGEN	PASSAIC	40 59	74 09	210	EST		MID		2		HARRY MITCHELL	3
MILLVILLE	5576	CUMBERLAND	MAURICE	39 24	75 03	60	EST		MID		8		L J GALLAHER	3 4
MILLVILLE AIRPORT	5581	CUMBERLAND	MAURICE	39 22	75 05	76	EST	MID	MID	2	2		CIVIL AERO ADM	2 3 4 5
MILTON	5597	MORRIS	PASSAIC	41 01	74 32		EST		7A				JERSEY CITY WTR WORKS	3
MOORESTOWN	5728	BURLINGTON	DELAWARE	39 58	74 57	62	EST	MID	7A	85	85		JAPANESE BEETLE LAB	2 3 5
MORRIS PLAINS 1 MI W	5769	MORRIS	PASSAIC	40 50	74 30	400	EST	4P	4P	3	7		JAMES C LONG	2 3 5
NEWARK WB AIRPORT	6026	ESSEX	COASTAL	40 42	74 10	11	EST	MID	MID	49	94		U S WEATHER BUREAU	2 3 4 5
NEW BRUNSWICK	6062	MIDDLESEX	RARITAN	40 29	74 27	99	EST	5P	5P	91	94		NEW JERSEY EXP STA	2 3 5
NEW MILFORD	6146	BERGEN	HACKENSACK	40 57	74 02	12	EST		MID		30		HACKENSACK WATER CO	3 4
NEWTON	6177	SUSSEX	DELAWARE	41 03	74 45	769	EST	8A	8A	65	65		C M WHEELER	2 3 5
OAK RIDGE RESERVOIR	6460	PASSAIC	PASSAIC	41 02	74 30	870	EST		4P				DIV OF WATER NEWARK	3
ORANGE	6560	ESSEX	PASSAIC	40 47	74 14	140	EST		MID		8		COUNTY ENGINEER	3 4
PATERSON	6775	PASSAIC	PASSAIC	40 55	74 10	100	EST	8A	8A	78	77		P J DEL VECCIE	2 3 5
PEMBERTON 1 MI E	6843	BURLINGTON	DELAWARE	39 58	74 41	60	EST	5P	5P	19	19		CHARLES A DOEHLERT	2 3 5
PHILLIPSBURG	6974	WARREN	DELAWARE	40 41	75 12	182	EST	10P	10P	57	65		TOWN ENGINEER	2 3 5
PHILLIPSBURG BRIDGE	6979	WARREN	DELAWARE	40 42	75 12		EST		8A		9		JOINT TOLL BRDG COMM	3
PLAINFIELD	7079	UNION	RARITAN	40 37	74 25	120	EST	8P	8P	57	60		S K PEARSON	2 3 5
PLAINSBO	7095	MIDDLESEX	RARITAN	40 19	74 36	110	EST		6P		7		WALKER-GORDON LAB	3
PLEASANTVILLE	7131	ATLANTIC	COASTAL	39 25	74 31	8	EST	9A	9A	25	50	25	N J DEPT OF CONSERV	2 3 5 6
QUAKERTOWN	7372	HUNTERDON	DELAWARE	40 34	74 57	645	EST		ar				WILLIS W VAIL	3 4
RAHWAY	7393	UNION	RAHWAY	40 36	74 15	20	EST		MID		9		LOUIS FONTENELLI	3 4
RIDGEFIELD	7545	BERGEN	HACKENSACK	40 50	74 00	80	EST	MID	7P	31	31		GEORGE P KIRSTEN	2 3 5
RINGWOOD	7587	PASSAIC	PASSAIC	41 08	74 16	305	EST		10A		1		NO JERSEY WATER SUPP	3
RUNNEMEDE 1 MI W	7817	CAMDEN	DELAWARE	39 51	75 04	42	EST	9P	6P				HENRY D MOSHER	2 3 5
RUNYON	7825	MIDDLESEX	COASTAL	40 26	74 20	18	EST	6P	6P	24	25	25	N J DEPT OF CONSERV	2 3 5 6
RUTHERFORD	7833	BERGEN	PASSAIC	40 49	74 07	51	EST	8P	8P	4	4		HAROLD SCOTT	2 3 5
SANDY BOOK	7869	MONMOUTH	COASTAL	40 28	74 01	22	EST	7P	MID	50	50		U S COAST GUARD	2 3 4 5
SOMERVILLE	8194	SOMERSET	RARITAN	40 35	74 18	65	EST	6P	6P	62	65		W E HAVER	2 3 5
SPLIT ROCK POND	8402	MILTON	ROCKAWAY	40 58	74 28		EST		10A				JERSEY CITY D P W	3
SPRINGFIELD	8423	UNION	COASTAL	40 43	74 18		EST		MID				N J DEPT OF CONSERV	3 4
SUSSEX	8644	SUSSEX	HUDSON	41 13	74 36	450	EST	6P	6P	50	53		MARSHALL HUNT	2 3 5
SWEDESBO	8680	GLOUCESTER	DELAWARE	39 45	75 19	75	EST		6P		2		E F HURFF CO	3
SWEDESBO 5 MI NW	8685	GLOUCESTER	DELAWARE	39 47	75 24	10	EST		NOON		2		SUN OIL CO	3
TOMS RIVER	8816	OCEAN	COASTAL	39 57	74 14	33	EST		5P		27		ROBERT F SNYDER	3

STATION INDEX - Continued

NEW JERSEY

SEPTEMBER 1948

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. O /	LONG. O /	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
TRENTON NO 2	8878	MERCER	DELAWARE	40 14	74 46	105	EST	MID	MID	18	18		E B RISTOW	2 3 5
TRENTON WB CITY	8883	MERCER	DELAWARE	40 13	74 46	56	EST	MID	MID	76	76		U S WEATHER BUREAU	2 3 4 5 7
TUCKERTON	8899	OCEAN	COASTAL	39 36	74 20	23	EST	6P	6P	49	54		WALTER J WARREN	3
VINELAND	9135	CUMBERLAND	MAURICE	39 29	75 01	110	EST		5P	58	68		ROBERT JONES	3 4
WANAQUE RAYMOND DAM	9187	PASSAIC	PASSAIC	41 02	74 18	320	EST		8A		2		WATER SUPPLY COMM	3 4
WATCHUNG	9271	UNION	PASSAIC	40 40	74 25								BONNIE BURN SAN'TRM	3 4
WESTFIELD	9455	UNION	RAHWAY	40 39	74 21	135	EST		9A		9		TOWN ENGINEER	3 4
WOODCLIFF LAKE	9832	BERGEN	HACKENSACK	41 01	74 03	103	EST		MID		30		HACKENSACK WATER CO	3 4
WOODSTOWN 2 MI NW	9910	SALEM	DELAWARE	39 40	75 20	16	EST	6A	6A	2	12		CHARLES CLARK	2 3 5

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late for inclusion in this issue.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Data in Tables 3, 5 and 6 are for the 24-hours ending at time of observation. See the Station Index for observation time.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, river stages in feet, and wind movement in miles.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with windshield.
- m No recording gage, precipitation is measured at 6-hourly intervals.
- n One or more days of record missing; see Table 5 for detailed daily record.
- r This entry in time of observation column in Station Index means after rain.
- s Station equipped with recording gage only. All amounts in Table 3 are from the non-recording gages, except for stations with this reference.
- x Daily precipitation totals in Table 3 are for the 24-hours ending at 1:30 A.M., E.S.T., of the following day.
- z Hourly amounts from the recording gage at the same site may be found in Table 4.
- T Trace, an amount too small to measure.

When hourly precipitation is accumulated over a period of 3 or more calendar days, with unknown hourly or daily distribution, the first and last days are shown in Table 4.

When hourly precipitation is missing for several days, only the first and last days are shown in Table 4.

Data in Table 4 were formerly published in the Hydrologic Bulletin for North Atlantic District. Amounts in this table are from recording gages. Traces are not shown.

Subscription Price: 15¢ per copy; \$1.50 a year. (Yearly subscription includes Annual Summary. Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, Federal Building, Albany 1, N.Y.)

W.B.O., Washington, D. C. - - - 11-24-48 - - - 1100 - - -

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CLIMATOLOGICAL DATA

NEW JERSEY

OCTOBER 1948

Volume LIII No. 10



WASHINGTON: 1949

NEW JERSEY - OCTOBER 1948

A. E. White, Section Director - Trenton

GENERAL SUMMARY

The month averaging 1.2° colder than normal was in marked contrast to October, 1947, which was the warmest October of record in New Jersey. The first two days were mild but thereafter it was cool until about the 25th. The last week was mild and sunny, typical Indian Summer weather. A few light frosts occurred the first half of the month, but there was no generally killing frost until the 19th. At that time, temperatures in the middle twenties were recorded at numerous stations and a few stations in the northern part of the State reported readings under twenty. The warmest days were the 1st, 2nd, 10th and 17th, but the highest reported anywhere was 81° on the 2nd.

Precipitation for the State as a whole, was only 63 percent of normal but was well distributed throughout the month, the number of days with measureable rainfall ranging from 6 to 13 at the various stations. The heaviest amounts were in the extreme south and coastal areas. A couple of tropical disturbances skirted the coast during the early part of the month causing good rains but were centered too far out at sea to cause serious wind damage in the State. The average State precipitation, while much below normal, was twice that of September, and was very beneficial in replenishing soil moisture. Farmers were able to prepare ground and sow winter grains, which work had been previously delayed. Certain late vegetable crops were also greatly improved and were plentiful on the markets until the end of the month. Traces of snow occurred at a few north Jersey stations on the 18th, but as is usually the case in October, there was no measureable snowfall during the month.

TEMPERATURE

The monthly mean temperature of the State, as computed from observations of 43 stations, was 53.6°, which was 1.2° below normal. The highest temperature was 81° at Hammonton on the 2nd, and the lowest, 16°, at Layton on the 22nd. The highest monthly mean temperature was 56.5° at Atlantic City, and the lowest, 49.9° at Layton.

The temperature departure from the normal for the year, 1948, to date, for the State is -0.2°

PRECIPITATION

The average precipitation for the State, as computed from observations of 45 stations, was 2.29 inches, which was 1.33 inches below normal. The greatest monthly precipitation was 5.69 inches, at Cape May, and the least, 1.16 inches at Great Meadows. The greatest amount of precipitation in any 24 consecutive hours was 1.98 inches at Cape May on the 1st.

The average for the Highlands was 1.89 inches; for the Red Sandstone Plain 1.82 inches; for the Southern Interior 2.37 inches; and for the Sea Coast 3.45 inches.

The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, -3.49 inches; Red Sandstone Plain, +0.72 inches; Southern Interior, +2.99 inches; Sea Coast, +5.41 inches.

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages -- mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U.S. Weather Bureau, Washington 25, D.C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

NEW JERSEY
OCTOBER 1948

STATIONS	SEA LEVEL PRESSURE EXTREMES—INCHES				WIND				RELATIVE HUMIDITY AVERAGES				SUN- SHINE	DEGREE DAYS 65° BASE
	HIGHEST	DATE	LOWEST	DATE	AVERAGE SPEED M.P.H.	MAXIMUM SPEED M.P.H.	DIRECTION	DATE	1:30A EST	7:30A EST	1:30P EST	7:30P EST	AVERAGE PERCENT	
ATLANTIC CITY WB	30.53	22	29.70	6	17.5	58	NE	5	84	85	69	78	53	267
LONG BRANCH	30.56	22	29.71	8	13.3	40	NE	5	-	80	66	64	52	319
NEWARK WB CITY	30.58	22	29.72	8	-	-	-	-	77	80	52	68	-	318
TRENTON WB CITY	30.55	22	29.73	8	9.5	32	N	24	-	75	-	-	49	320

TABLE 1
COMPARATIVE DATA

NEW JERSEY
OCTOBER 1948

YEAR	TEMPERATURE			PRECIPITATION			YEAR	TEMPERATURE			PRECIPITATION		
	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE		MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE
1885	54.2	82	29	4.20	0.0		1918	57.0	84	22	1.25	0.0	8
1886	55.6	88	21	3.22	0.0		1919	59.0	92	25	3.43	0.0	13
1887	52.3	89	21	2.61	0.0	7	1920	59.0	87	28	1.80	0.0	5
1888	49.2	73	25	4.73	0.0	12	1921	54.1	82	16	0.97	0.0	5
1889	50.8	82	23	3.80	0.0	11	1922	56.6	92	18	1.48	0.0	7
1890	53.9	81	24	6.33	0.0	13	1923	53.9	81	21	4.25	0.0	8
1891	52.8	92	18	3.44	0.0	8	1924	54.4	84	16	0.31	0.0	1
1892	53.6	85	21	0.52	0.0	4	1925	49.1	84	12	4.59	0.0	11
1893	55.2	85	17	4.22	0.0	7	1926	53.1	90	17	4.08	0.0	11
1894	55.3	87	27	5.67	0.0	10	1927	56.8	94	23	7.82	0.0	10
1895	49.9	83	18	3.60	0.0	5	1928	56.1	90	16	1.19	0.0	6
1896	51.5	82	21	2.24	0.0	8	1929	52.3	80	17	4.61	0.0	8
1897	55.8	95	22	2.43	0.0	7	1930	52.6	89	12	1.95	0.0	6
1898	56.5	88	24	5.76	0.0	10	1931	58.3	92	24	2.76	0.0	8
1899	56.6	86	18	2.72	0.0	6	1932	56.2	89	21	5.85	0.0	10
1900	59.9	92	19	3.70	0.0	10	1933	53.6	84	18	2.04	T	6
1901	54.4	82	21	1.93	0.0	4	1934	52.6	82	21	2.49	T	6
1902	56.0	80	20	6.39	0.0	8	1935	54.8	84	23	4.50	0.0	8
1903	55.9	86	24	8.92	0.0	8	1936	55.6	82	9	3.40	0.0	8
1904	51.9	89	15	3.78	0.0	5	1937	53.2	84	15	5.27	T	10
1905	55.5	90	17	2.71	0.0	7	1938	56.2	93	24	2.47	0.0	7
1906	55.0	80	11	4.46	0.0	11	1939	54.9	93	19	4.24	0.0	9
1907	50.6	80	18	4.46	0.0	7	1940	51.0	82	11	2.36	0.7	8
1908	57.3	92	19	2.71	0.0	8	1941	58.9	97	17	1.90	0.0	8
1909	51.2	84	18	1.18	0.0	8	1942	56.1	87	21	3.43	0.0	9
1910	57.2	90	18	3.15	0.0	7	1943	53.5	87	18	7.51	0.0	11
1911	53.9	80	18	5.49	0.0	12	1944	53.7	88	18	2.41	0.0	6
1912	57.0	88	25	3.30	0.0	5	1945	54.2	86	21	2.51	0.0	9
1913	57.8	83	25	7.79	0.0	11	1946	59.0	90	24	1.49	0.0	7
1914	58.1	88	19	1.99	0.0	5	1947	60.4	89	18	2.06	0.0	5
1915	56.2	84	23	3.03	0.0	9	1948	53.6	81	16	2.29	0.0	9
1916	55.1	92	23	1.37	0.0	4	PERIOD	54.7	97	9	3.62	T	8
1917	50.7	84	22	6.99	0.0	10							

CLIMATOLOGICAL DATA

NEW JERSEY

OCTOBER 1948

Table 2

Station	Temperature								Precipitation									
	Average	Departure from Normal	Highest	Date	Lowest	Date	No. of Days		Total	Departure from Normal	Greatest Day	Date	Snow, Sleet, Hail			No. of Days		
							Max. 90° or above	Min. 32° or below					Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
ATLANTIC CITY WB	56.5	-0.4	76	1+	36	19			3.19	- .01	1.13	5				12	4	1
BELLEPLAIN	54.6	-0.8	80	1	24	19			5.67	-2.31	1.58	6				13	5	2
BELVIDERE	53.5	-1.3	77	1+	26	19		4	1.94	-1.69	.50	1				10	4	
BOONTON	51.8	-0.6	76	2+	24	20		7	2.29	-1.25	.64	1				9	3	
BRIDGETON	55.1	-1.9	77	1	30	19		1	2.36	-1.01	.73	5				8	3	
BURLINGTON	55.7	-1.5	78	1+	30	19		1	1.95	-1.53	.90	6				6	4	
CANOE BROOK	51.6	-1.0	80	2	19	19		10	2.82	- .82	.80	11				11	3	
CAPE MAY			77	1				4	5.69	-2.65	1.98	1				10	5	2
CHARLOTTEBURG	50.8	-0.7	76	1	18	19+		10	2.14	-2.10	1.00	8	T			7	3	1
CHATSWORTH	54.1		77	1+	21	19		6	2.40		1.15	25				7	2	1
CLAYTON	54.3	-2.1	78	1	28	19		1	2.00	-1.30	.49	24				8	4	
ELIZABETH	55.0	-0.3	80	1+	27	19		2	2.01		.58	8				10	3	
FLEMINGTON	52.9	-2.8	79	2	21	19+		7	1.28	-2.16	.30	18	T			11	1	
FREEHOLD	53.7	-1.3	79	1	27	19		3	2.50	-1.24	.73	24				11	3	
HAMMONTON	55.7	-0.5	81	2	26	19		5	4.82	1.23						6		
HIGHTSTOWN	53.7	-1.2	79	1+	25	19		4	1.63	-2.01	.44	24				8	2	
INDIAN MILLS 2 W	53.5	-1.8	77	1+	21	19		6	2.26	-1.23	.70	24				10	4	
JERSEY CITY	53.0	-3.0	77	2	32	19+		2	1.67	-1.81	.92	8				9	2	
LAKEWOOD	51.4	-3.1	80	2	22	19		10	3.06	- .93						12		
LAMBERTVILLE	53.9	-0.5	78	1+	25	19		5	1.47	-1.98	.41	24				11	2	
LAYTON 3 NW	49.9	-1.0	77	1	16	22		14	1.31	-2.29	.77	18	T			5	2	
LITTLE FALLS WATER CO	53.3	-0.9	79	2	25	19		6	2.16	-2.00	.57	8				9	3	
LONG BRANCH	54.8	-0.5	79	1	29	19		1	2.61	- .95	.93	24				10	4	
LONG VALLEY	50.1	-1.4	77	30	20	19		11	2.73	- .71	1.02	1				9	3	
MILLVILLE AIRPORT	54.3		79	1	26	19		3	2.50		1.04	5				10	2	1
MOORESTOWN	53.3	-1.6	77	2	26	19		4	1.47	-1.94	.66	25				8	3	
MORRIS PLAINS	52.1		78	1	24	19		7	1.79		.47	8	T			10	2	
NEWARK WB AIRPORT	55.1	-0.5	80	1	30	19		1	1.89	-1.90	.69	8				10	3	
NEW BRUNSWICK	53.8	-1.0	78	1	28	19		4	1.41	-2.15	.30	18				10	1	
NEWTON	50.1	-2.6	74	2+	20	19+		12	1.74	-1.92	.81	1				8	2	
PATERSON	55.0		80	2	29	19+		2	2.14	-1.72	.57	8				12	3	
PEMBERTON 1 E	53.7	-2.5	79	17	25	19		5	1.79	-1.67	.52	24				10	4	
PLAINFIELD	53.6	-0.5	80	1	23	19		5	1.90	-1.97	.40	24				11	4	
PLEASANTVILLE	54.8	-0.3	79	2	25	19		7	3.58	.11	1.78	6				12	3	1
RIDGEFIELD	53.9		80	1+	26	19		4	2.13	-1.38	.83	8				9	3	
RUNNEMEDE	53.8		80	1	26	19		4	1.76		.70	24				9	3	
RUNYON	52.7	-0.2	77	1	18	19		8	1.70	-2.04	.39	18				7	3	
RUTHERFORD	56.3		80	1+	28	19		1	1.94		.77	8				10	4	
SANDY HOOK	56.4	-0.3	78	2	39	19			2.21	-1.57	.82	8				9	3	
SOMERVILLE	53.3	-0.9	78	1+	23	19		5	1.59	-1.80	.34	18				10	2	
SUSSEX	51.5	-1.3	76	1	21	19+		9	1.59	-1.73	.59	18				7	3	
TRENTON NO 2	54.7	-0.2	79	1	29	19		1	1.65	-1.69	.57	24				9	1	
TRENTON WB CITY	54.8	-0.8	77	1	32	19		1	1.27	-1.51	.45	24				10	1	
TUCKERTON 1 S			80	2	28	19		2	3.10	- .49	.95	6				10	4	
WOODSTOWN 2 NW	53.8		79	2	28	19		2	2.01		.58	6				9	3	
STATE	53.6	-1.2							2.29	-1.33								

See reference notes following Station Index.

NEW JERSEY

OCTOBER 1948

Table 3

See reference notes following Station Index.

NEW JERSEY
OCTOBER 1948

See reference notes following Station Index

TABLE 4 — Continued

HOURLY PRECIPITATION

NEW JERSEY
OCTOBER 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
MARLBORO																			.03	.01	.01				.05	
MILLVILLE																*		.07	.03	.07					.17	
MILLVILLE AIRPORT 6																*		*	*	.18						
SANDY HOOK																	.01			.05	.02		.05	.01	.14	
WESTFIELD																	.01	.02							.03	
-13th-																										
ATLANTIC CITY WB																									.01	
CHARLOTTEBURG																									.01	
GLASSBORO																			.03	.07	.02				.12	
LAKEHURST AIRPORT																						.01	.01		.02	
LITTLE FALLS WATER CO																						.01	.01		.02	
LUMBERTON																					.02	.03	.04		.09	
MARLBORO																									.01	
MILLVILLE																									.01	
NEWARK WB AIRPORT																						.08	.05		.13	
QUAKERTOWN																	.02						.02		.02	
RAHWAY																									.01	
TRENTON WB CITY																						.03			.03	
WOODCLIFF LAKE																							.01		.01	
-14th-																										
ATLANTIC CITY WB	.01	.03	.03	.04																					.12	
CAPE MAY	.02	.06	.04	.02												.01									.14	
CHARLOTTEBURG	.02																								.02	
IRVINGTON	.01	.01																							.02	
LITTLE FALLS WATER CO	.01	.01	.01	.01																					.04	
LONG BRANCH	.02																								.02	
MARLBORO	.02																								.02	
MILLVILLE	.01	.02																							.03	
MILLVILLE AIRPORT 6	*	.20																								
NEWARK WB AIRPORT	.02																								.02	
NEW MILFORD	.05	.01																							.06	
ORANGE	.03																								.03	
RAHWAY	.01																								.01	
WANAQUE RAYMOND DAM		.02																							.02	
WOODCLIFF LAKE	.03	.01							.01																.05	
-17th-																										
CHARLOTTEBURG																							.01		.01	
GREAT MEADOWS																								.01	.01	
LITTLE FALLS WATER CO																				*	*	*	*	*	.01	
ORANGE																								*	*	
-18th-																										
ATLANTIC CITY WB					.01		.01	.03	.04																.09	
CAPE MAY						.01	.08	.07																	.16	
CHARLOTTEBURG	.03	.02	.01	.02	.03	.06	.08	.02	.06																.33	
ELIZABETHPORT					.04	.04	.04	.05	.05	.01		.01													.24	
FREEHOLD				.02	.01	.02	.01	.05	.06	.01															.18	
GLASSBORO		.01	.01	.06	.05	.07	.01																		.21	
GREAT MEADOWS				.03	.03	.05	.10	.05	.09																.35	
IRVINGTON			.01	.01	.01	.02	.06	.02	.04																.17	
LAKEHURST AIRPORT							.03	.02	.02																.07	
LITTLE FALLS WATER CO	.01	.01	.01	.01	.01	.04	.05	.05	.05																.24	
LONG BRANCH				.01	.01	.06	.06	.08	.03	.01															.26	
LUMBERTON				.04	.03	.06	.05	.06	.04	.01															.29	
MARLBORO				.02	.02	.03	.05	.05	.05	.03															.25	
MILLVILLE			.01		.01	.03	.04	.06																	.15	
MILLVILLE AIRPORT 6			*	*	*	*	*	.12																		
NEWARK WB AIRPORT		.01	.02	.02	.04	.07	.06	.05	.05	.01	*														.33	
NEW MILFORD				.01	.02		.08	.03	.04	.04	.01	*	*	*	*	.28									.23	
ORANGE	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*									.28	
QUAKERTOWN			.02	.02	.02	.06	.04	.08	.03																.27	
RAHWAY	.01	.01	.03	.02	.03	.02	.08	.06	.01																.27	
SANDY HOOK				.02	.02	.03	.06	.07	.04																.27	
SPRINGFIELD				.01	.02	.02	.06	.05	.05	.04															.27	
TRENTON WB CITY			.01	.02	.02	.03	.05	.05	.05																.21	
WANAQUE RAYMOND DAM	.02	.01	.01	.02	.04	.10	.08	.04																	.32	
WATCHUNG	.02	.02	.03	.02	.01	.09	.05	.04	.01	.01															.30	
WESTFIELD			.02	.02	.01	.02	.04	.08	.06	.06															.31	
WOODCLIFF LAKE				.01	.02	.01	.05	.04	.04	.02															.19	
-19th-																										
GREAT MEADOWS																									.02	
LITTLE FALLS WATER CO																									.01	
TRENTON WB CITY																						.01			.01	
WESTFIELD																									.01	
-20th-																										
CHARLOTTEBURG							.01																		.01	
ELIZABETHPORT							.02	.05	.03	.02															.12	
FREEHOLD									.07																.07	
GREAT MEADOWS	.01																								.01	
IRVINGTON							.06	.01																	.07	
LITTLE FALLS WATER CO	.01	.01	.01																						.03	
LONG BRANCH							.01			.15	.22	.01													.39	
MARLBORO							.06	.06																	.12	
NEWARK WB AIRPORT		.01					.01	.01	.03																.06	
ORANGE	.01								.07	.02															.10	
QUAKERTOWN											.03														.03	
RAHWAY							.08	.04	.01																.13	
SANDY HOOK							.02	.02	.02	.03															.09	
SPRINGFIELD							.05	.07																	.12	
TRENTON WB CITY						.01	.05																		.08	
WANAQUE RAYMOND DAM							.06																		.08	
WATCHUNG																										

TABLE 4 — Continued

HOURLY PRECIPITATION

NEW JERSEY

OCTOBER 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
-23d-																										
CAPE MAY								.01																		.01
ELIZABETHPORT											.02				.01	.08										.11
FREEHOLD														.06	.02	.01	.03	.01								.13
IRVINGTON																.04	.01									.05
LAKEHURST AIRPORT										.09	.10	.07														.26
LONG BRANCB														.03	.01		.01						.01	.01		.07
MARLBORO														.01	.06	.01	.01									.09
MILLVILLE								.03	*																	.03
MILLVILLE AIRPORT 6										*	*	*	*	*	.10											
NEWARK WB AIRPORT															.02	.03	.01	.01						.01		.08
ORANGE															*	*	*	*	*	*	*	*	*	*	*	*
QUAKERTOWN																	.04	.04	.01		*	*	*	*	*	*
RAHWAY														.01	.05	.08	.04									.09
SANDY BOOK														.04	.07	.01										.18
SPRINGFIELD																	.03									.12
TRENTON WB CITY														.02	.05	.06										.03
WATCHUNG															.01		.06	.02		.01						.13
WESTFIELD															.01	.01	.04	.01								.10
																										.07
-24th-																										
ATLANTIC CITY WB		.02	.02	.01		.01	.01	.05	.03	.02	.01	.01	.06	.08	.10	.12	.08	.05	.01	.01	.01	.01				.72
CAPE MAY													.01	.03	.08	.15	.18	.21	.22	.08	.01					.97
CHARLOTTEBURG													.01	.01			.01									.03
ELIZABETHPORT													.01	.02	.04	.05	.05	.01	.05	.03	.03	.01				.35
FREEHOLD		.01	.02	.02						.01	.05	.09	.09	.07	.09	.15	.09	.13	.07	.10	.05					1.04
GLASSBORO													.01	.03	.05	.08	.06	.16	.12	.12	.07	.02				.72
IRVINGTON													.04	.04	.03	.04	.04	.03	.03	.04	.02					.31
LAKEHURST AIRPORT										.01	.02	.05	.10	.07	.11	.08	.02	.02	.02			.02				.52
LITTLE FALLS WATER CO										.01	.01	.01	.02	.05	.04	.01	.02	.03			.01	.02				.23
LONG BRANCB	.02	.02	.02			.04	.01			.02	.08	.11	.05	.06	.10	.06	.07	.10	.10	.06			.01			.93
LUMBERTON													.05	.09	.09	.06	.10	.18	.12	.11	.03	.01		.01		.85
MARLBORO	.01	.01	.01										.03	.07	.06	.04	.07	.12	.08	.07	.04	.07	.06			.74
MILLVILLE													.04	.06	.10	.18	.14	.20	.06	.10	.02	.05	*	*	*	.95
MILLVILLE AIRPORT 6									*	*	*	*	*	.02	*	*	*	*	.39	*	*	*	*	*	*	
NEWARK WB AIRPORT										.01	.04	.02	.06	.03	.05	.04	.05	.05	.04	.03	.01	.01	.01			.43
NEW MILFORD														.01	.02	.02	.04	.08	.03	.01	.03	.01				.25
QUAKERTOWN																			.04	.01						.05
RAHWAY													.02	.07	.02	.05	.03	.01	.03	.03	.02					.28
SANDY BOOK	.01	.01											.04	.02	.02	.01	.04	.04	.04	.02	.05	.03	.01		.01	.35
SPRINGFIELD													.02	.06	.06	.06	.06	.04	.06	.05	.05	.03	.01	.01		.51
TRENTON WB CITY													.05	.05	.04	.03	.06	.09	.06	.06	.01					.45
WANAUKE RAYMOND DAM										.02			.01	.02	.01	.07	.01		.01							.15
WATCHUNG										.01	.02	.05	.07	.06	.06	.08	.05	.02	.03	.01						.46
WESTFIELD										.02	.03	.05	.04	.03	.07	.07	.01	.01	.02	.01						.36
WOODCLIFF LAKE													.01	.03	.06	.05	.01	.01	.01	.01	.01	.01	.01			.21
-25th-																										
ATLANTIC CITY WB																.01	.01	.01	.01							.04
CHARLOTTEBURG			.01	.01	.03	.02	.02	.02																		.11
ELIZABETHPORT			.01	.01	.02	.01	.03	.02	.02	.01	.01															.10
FREEBOLD					.01	.02	.04	.02	.02	.02	.05	.01	.01													.11
GREAT MEADOWS					.01	.02	.02	.02	.02	.02																.10
IRVINGTON		.01		.01	.03	.02	.02	.02	.01																	.12
LAKEHURST AIRPORT							.02															.01				.03
LITTLE FALLS WATER CO						.04	.03	.02	.05																	.14
LONG BRANCB	.01					.04	.04	.05	.03								.01	.01	.01			.01				.19
LUMBERTON			.01		.01		.05	.03	.02									.01	.01							.14
MARLBORO							.06	.02	.03																	.11
MILLVILLE							.03																			.03
MILLVILLE AIRPORT 6	*	*	*	*	*	*	*	.01	*	*	*	*	*	.02		.01										.12
NEWARK WB AIRPORT	.01			.02	.03	.01	.02	.01	.01								.01									.45
NEW MILFORD	.01		.04	.05	.05	.05	.12	.10	.03																	.62
ORANGE	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.62											.05
QUAKERTOWN						.01	.01	.02	.02																	.04
RAHWAY							.02	.03	.02																	.08
SANDY BOOK				.01		.04	.02	.03	.04																	.13
SPRINGFIELD							.01	.01	.01	.03	.01															.07
TRENTON WB CITY	.01						.02	.01	.02	.04																.09
WANAUKE RAYMOND DAM					.01	.01	.02	.06	.02	.01																.13
WATCHUNG						.01	.02	.03	.01																	.07
WESTFIELD						.01	.02	.03	.01																	.19
WOODCLIFF LAKE		.01	.01	.01	.09	.04	.01	.02																		
-26th-																										
ATLANTIC CITY WB	.01																									.01
SPRINGFIELD		.01																								.01
-31st-																										
BIGHTSTOWN PUMPING STATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See reference notes following Station Index

DAILY TEMPERATURES

NEW JERSEY

OCTOBER 1948

Table 5

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ATLANTIC CITY WB	MAX MIN	76 66	76 59	65 55	58 45	62 57	62 56	63 58	65 59	66 51	70 60	66 63	67 56	65 52	59 49	63 48	63 48	66 60	65 41	51 36	56 43	52 38	56 41	62 55	55 47	53 49	66 48	63 45	60 46	64 46	60 46	60 47	62.4 50.6
BELLEPLAIN	MAX MIN	80 66	77 53	74 53	60 39	57 46	62 53	65 57	64 58	66 42	75 49	70 59	68 56	66 42	60 44	63 41	68 32	74 45	66 39	54 24	57 38	60 32	57 32	65 30	62 47	55 46	69 44	70 39	67 32	72 37	68 37	65 35	65.7 43.5
BELVIDERE	MAX MIN	77 59	77 64	68 52	64 34	52 42	71 42	73 45	67 44	65 43	63 42	67 50	71 41	67 40	64 43	68 34	74 45	65 34	54 26	53 37	55 30	57 27	60 39	57 46	60 49	70 47	70 40	64 36	71 37	67 35	66 30	65.2 41.7	
BOONTON	MAX MIN	72 55	76 55	76 50	67 34	64 39	56 39	71 46	72 46	64 44	63 42	65 49	65 49	68 49	63 42	58 41	63 30	66 36	73 39	50 25	51 24	52 28	54 31	57 33	57 45	55 46	56 36	72 36	70 35	66 35	70 32	68 30	63.9 39.6
BRIDGETON	MAX MIN	77 62	70 55	75 55	70 55	63 43	63 50	67 55	68 59	63 43	71 50	65 59	66 54	65 45	57 43	60 42	66 38	68 50	62 39	52 30	55 40	52 35	58 36	66 48	58 46	57 48	67 44	68 43	64 39	69 41	64 43	62 39	64.1 46.1
BURLINGTON	MAX MIN	78 60	78 59	75 55	63 40	58 52	68 49	68 52	68 56	73 58	73 56	68 54	65 44	62 45	65 48	69 38	77 44	60 30	55 36	55 34	57 34	57 34	57 45	57 47	58 45	70 39	70 42	69 37	72 39	71 43	68 35	66.1 45.3	
CANOE BROOK	MAX MIN	73 57	80 49	78 47	70 30	64 37	55 44	70 45	71 54	63 43	65 39	70 48	65 51	71 36	65 41	60 37	65 38	68 38	76 19	51 30	55 23	53 22	56 32	58 45	52 47	57 45	71 41	72 29	66 33	71 27	68 26	65.1 38.0	
CAPE MAY	MAX MIN	77 74	74 74	71 71	64 64	60 60	63 63	65 65	64 66	71 66	66 66	65 65	63 63	63 66	69 65	65 55	56 56	55 55	59 59	55 55	59 59	65 65	59 57	62 62	71 71	61 61	64 64	59 59	61 61	63.9 63.9			
CHARLOTTEBURG	MAX MIN	76 58	75 49	75 49	66 32	58 34	71 43	71 51	67 51	62 43	64 45	67 52	65 42	62 35	62 40	72 25	65 42	52 34	51 18	50 26	51 24	54 18	55 31	55 42	53 43	69 43	69 48	66 29	67 33	67 28	70 27	63.5 38.0	
CHATSORTH	MAX MIN	77 60	77 52	70 49	72 35	62 34	69 30	68 57	66 41	64 47	70 55	68 45	65 48	63 42	63 42	70 28	76 48	66 37	58 21	56 36	55 30	59 28	60 43	59 49	54 46	88 45	71 37	68 33	72 36	67 37	68 27	67.0 41.1	
CLAYTON	MAX MIN	78 60	77 56	68 53	61 38	56 46	64 50	65 54	68 56	64 44	74 58	65 53	66 54	64 42	57 44	62 35	68 48	74 36	64 28	53 36	56 39	57 34	56 33	63 46	55 47	57 45	68 41	68 38	64 38	69 40	65 34	64.2 44.3	
ELIZABETH	MAX MIN	80 60	80 52	70 53	64 40	57 45	68 47	69 53	67 54	64 44	67 43	66 53	72 54	68 41	64 45	66 46	71 35	78 44	69 40	56 27	55 43	56 32	58 34	59 43	54 47	56 47	77 45	70 35	67 38	72 39	69 36	72 34	66.5 43.5
FLEMINGTON	MAX MIN	78 60	79 54	73 52	64 36	59 41	70 46	74 48	63 55	64 48	72 36	65 49	63 50	65 44	60 41	65 42	67 31	76 36	68 37	54 21	53 32	55 26	56 21	56 38	54 46	61 48	70 45	70 33	74 30	70 36	69 28	65.6 40.1	
FREEHOLD	MAX MIN	79 61	78 55	66 53	60 35	57 42	67 48	67 55	64 55	64 45	72 47	68 57	67 51	62 44	62 45	69 39	75 46	60 38	52 27	53 36	52 30	57 29	57 42	52 45	53 46	69 44	70 38	66 40	65 42	68 37	63.8 43.6		
HAMMONTON	MAX MIN	80 60	81 60	69 48	65 36	68 46	75 51	71 54	72 52	73 40	75 59	69 58	68 59	69 41	65 37	71 32	70 36	68 36	55 26	59 30	57 29	58 41	63 39	60 42	71 43	72 38	68 28	73 36	62 41	71 42	68.0 43.3		
HIGHTSTOWN	MAX MIN	79 61	79 58	68 51	63 36	55 42	65 48	69 53	64 55	64 44	71 48	66 56	68 54	65 42	65 44	69 32	77 45	67 38	54 25	54 36	56 29	56 28	57 40	53 46	55 46	71 44	70 36	66 40	66 35	65 36	65.6 42.7		
INDIAN MILLS 2 W	MAX MIN	77 61	77 52	66 52	62 34	57 44	66 50	65 54	65 57	74 47	66 56	67 51	66 41	59 41	63 41	69 31	75 45	65 38	54 21	56 37	55 30	56 27	60 43	56 47	55 47	70 45	70 39	65 32	71 35	66 37	66.4 42.2		
JERSEY CITY	MAX MIN	75 60	77 58	65 45	60 39	55 47	65 57	66 50	65 50	67 50	63 57	66 53	63 49	60 46	60 46	68 41	56 49	51 32	52 35	50 43	55 44	49 43	51 42	67 48	65 45	60 42	65 44	65 39	63 43	67 43	61.2 45.5		
LAKEWOOD	MAX MIN	79 59	80 51	71 39	59 33	58 37	66 49	68 54	66 55	65 43	74 41	66 41	61 46	63 30	67 27	76 38	64 38	53 22	54 28	52 27	57 25	57 43	58 43	55 35	68 42	67 36	70 31	68 32	71 31	68 30	64.6 38.1		
LAMBERTVILLE	MAX MIN	78 62	78 52	70 50	64 33	53 42	69 47	72 47	64 56	65 41	72 45	66 54	70 54	65 40	65 44	66 39	70 34	70 33	55 25	57 37	58 28	58 26	58 41	55 47	59 49	73 45	72 34	66 45	71 39	69 32	66.2 41.6		
LAYTON 3 NW	MAX MIN	77 56	75 48	65 45	68 25	63 33	70 42	73 42	60 45	64 38	64 36	65 45	70 45	67 32	66 25	72 42	57 35	52 20	51 28	56 22	58 16	61 32	59 40	60 45	70 40	66 27	66 30	70 30	69 22	69 22	64.7 35.0		
LITTLE FALLS WATER CO	MAX MIN	71 59	79 53	77 52	69 35	64 41	63 46	72 53	66 54	65 44	68 50	65 54	65 44	60 42	64 32	78 44	76 39	62 32	54 30	53 27	55 30	56 37	57 41	53 47	59 45	71 45	70 35	66 36	69 31	70 32	65.5 41.4		
LONG BRANCH	MAX MIN	79 62	78 55	65 52	60 47	59 52	67 52	68 57	68 56	64 47	73 52	66 60	66 47	65 43	60 45	62 40	64 38	71 50	64 39	52 29	52 40	51 34	56 40	58 46	53 46	68 47	66 44	62 39	68 43	63 40	69 40	63.5 46.1	
LONG VALLEY	MAX MIN	68 55	75 50	76 51	66 32	63 38	69 41	70 54	61 40	60 36	65 47	63 51	67 36	64 37	58 26	62 36	65 37	72 35	48 20	51 28	53 22	52 31	56 42	58 41	54 43	61 43	68 40	69 30	65 27	77 26	67 27	63.1 37.0	
MILLVILLE AIRPORT	MAX MIN	79 59	77 55	67 49	62 41	57 48	63 50	67 56	70 54	66 43	74 50	66 51	67 53	65 44	59 39	63 34	66 50	75 32	64 26	54 39	57 32	60 34	65 49	53 46	56 45	68 43	69 40	65 37	71 37	66 37	65 37	64.8 43.7	
MOORESTOWN	MAX MIN	76 59	77 57	62 46	62 39	57 43	67 49	69 54	64 55	63 47	73 56	66 49	68 52	65 45	59 39	63 35	69 43	75 35	49 32	53 26	56 30	53 41											

TABLE 5 — Continued
DAILY TEMPERATURE (°FAHRENHEIT)

Table 5-Continued

NEW JERSEY

OCTOBER 1948

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
SANDY HOOK	MAX	74	78	68	61	58	66	68	67	65	69	65	68	65	60	60	64	71	62	51	53	52	56	56	53	53	62	63	60	63	60	67	62.5
	MIN	62	61	57	46	54	51	58	62	50	54	60	58	47	49	51	50	53	40	39	43	42	44	45	46	46	50	49	48	47	48	47	50.2
SOMERVILLE	MAX	78	78	69	63	54	69	70	64	64	71	65	69	65	59	66	69	75	67	55	55	55	57	58	54	58	72	71	67	74	70	69	65.5
	MIN	57	52	51	35	42	46	54	55	41	42	52	55	36	44	39	31	43	38	23	34	27	29	41	47	48	44	33	34	37	33	30	41.1
SUSSEX	MAX	76	75	71	61	53	72	73	65	63	63	66	70	65	58	66	67	73	67	51	51	50	57	60	56	58	72	66	65	59	65	70	64.0
	MIN	59	50	52	38	38	45	49	52	41	43	50	50	41	38	41	27	44	37	21	29	25	21	35	42	48	41	30	34	31	28	29	39.0
TRENTON NO 2	MAX	79	78	66	62	56	67	70	63	65	72	66	68	65	60	65	69	75	62	53	54	56	57	57	55	58	69	70	64	72	66	65	64.6
	MIN	62	57	49	39	45	48	52	55	45	48	57	51	45	46	45	37	48	36	29	40	33	33	43	46	48	45	43	40	42	41	38	44.7
TRENTON WB CITY	MAX	77	76	63	59	56	66	68	63	64	71	66	67	64	57	62	67	74	49	52	53	52	56	56	55	57	69	69	65	70	66	64	63.0
	MIN	61	59	49	42	49	50	55	56	47	50	58	51	48	47	46	41	48	37	32	41	35	36	46	47	47	46	47	43	44	44	42	46.5
TUCKERTON 1 S	MAX	78	80	66	60	60	63	62	70	66	77	67	66	66	61	64	62	69	64	52	57	55	57	61	57	53	76	67	62	71	62	69	64.5
	MIN	59	55	54	44	46	49	52	55	44	45	50	57	45	43	42	38	39	38	28	29	34	34	38	47	47	46	44	39	40	41	34	43.7
WOODSTOWN 2 NW	MAX	73	79	75	63	60	53	65	68	65	65	73	65	68	64	58	62	66	75	51	53	57	52	56	61	55	60	67	68	63	72	65	63.8
	MIN	59	55	54	44	46	49	52	55	44	45	50	57	45	43	42	38	39	38	28	29	34	34	38	47	47	46	44	39	40	41	34	43.7

TABLE 6
DAILY EVAPORATION (INCHES) AND WIND MOVEMENT (MILES)

STATION		DAY OF MONTH																															TOTAL	DEPART- URE FROM NORMAL
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
CANOE BROOK	EVAP WIND	.032 1	.064 4	.064 1	.080 2	.080 5	.020 5	.064 8	.038 3	.014 4	.064 7	.016 4	.064 3	.046 9	.048 4	.064 3	.064 11	.022 4	.008 13	.048 21	.032 3	.032 3	.032 17	.058 6	.006 18	.096 6	.064 2	.032 2	.032 2	.032 1	1.316 172			
PLEASANTVILLE	EVAP WIND	.062 23	.080 13	.096 14	.096 13	.052 54	.094 90	.036 57	.036 50	.096 22	.080 20	.046 14	.128 15	.066 12	.064 14	.096 12	.016 12	.108 14	.048 95	.052 40	.060 24	.060 53	.060 26	.052 35	.060 62	.106 145	.030 73	.160 86	.032 14	.048 7	.048 6	2.156 1291		
RUNYON	EVAP WIND	.160 19	.160 17	.160 16	.140 16	.080 17	.060 16	.100 22	.160 20	.160 14	.160 15	.120 12	.120 14	.120 12	.080 12	.080 2	.060 12	.030 12	.060 10	.010 20	.060 20	.080 21	.015 20	.018 18	.19 26	.060 30	.060 28	.060 1	.060 25	.060 32	.060 30	2.455 552		

TABLE 7
DAILY RIVER STAGES (FEET)

RIVER AND STATION	FLOOD STAGE	DAY OF MONTH																															HIGHEST (OR CREST)	DATE	LOWEST	DATE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
DELAWARE																																				
TRENTON	12	0.4	0.5	0.4	0.3	0.1	-0.0	0.1	0.4	0.4	0.2	0.3	0.1	-0.1	0.1	0.2	0.3	0.2	0.1	-0.0	-0.0	0.2	0.5	0.5	0.2	0.2	0.1	-0.0	0.2	0.2	0.1	-0.0	0.5	2+	-0.1	13

The following reference notes apply only to Table 7 - Daily River Stages:

Readings are made at approximately 7 a.m. (local time). They are provisional and subject to correction. Final and corrected stages will be published in the annual publication "Daily River Stages - Principal Rivers of the United States".

a Obstructed by rough ice.
b Froze but open at gage.
c Upper surface of smooth ice.
d Ice gorge above gage.
e Ice gorge below gage.

f Shore ice.
g Floating ice.
h Pool stage.
i Dry at gage.
j Interpolated.

See reference notes following Station Index.

STATION INDEX

NEW JERSEY

OCTOBER 1948

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. O /	LONG. O /	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
ATLANTIC CITY WB	0325	ATLANTIC	COASTAL	39 22	74 25	8	EST	MID	MID	75	75		U S WEATHER BUREAU	2 3 4 5
BASS RIVER STATE FOREST	0528	BURLINGTON	COASTAL	39 35	74 28		EST		6P		2		N J FORESTRY SERVICE	2 3 5
BELLEPLAIN	0690	CAPE MAY	COASTAL	39 16	74 52	49	EST	5P	5P	54	54		MRS ED C HOFFMAN	2 3 5
BELMAR	0721	MONMOUTH	COASTAL	40 10	74 02	19	EST		MID	7	7		CITY WATER DEPT	3
BELVIDERE	0729	WARREN	DELAWARE	40 50	75 05	289	EST	5P	5P	56	56		MISS C S HIXSON	2 3 5
BERLIN 1 MI W	0787	CAMDEN	MULLICA	39 48	74 56	70	EST		7A		7		SAMUEL H MC CULLEY	3
BOONTON	0907	MORRIS	PASSAIC	40 54	74 24	280	EST	8A		40	58		JERSEY CITY WTR WKS	2 3 5
BRIDGETON	1028	CUMBERLAND	DELAWARE	39 26	75 14	30	EST	6P	6P	60	65		BENNET K MATLACK	2 3 5
BRIDGETON NO 2	1033	CUMBERLAND	DELAWARE	39 30	75 14		EST		8A				SEABROOK FARMS	3
BROOKLAWN	1106	CAMDEN	DELAWARE	39 53	75 07	30	EST		4P	7	7		C D SCOTT	3
BURLINGTON	1211	BURLINGTON	DELAWARE	40 04	74 51	12	EST	6P	6P	36	62		PUBLIC SERVICE E&G CO	2 3 5
CANISTEAR RESERVOIR	1327	SUSSEX	PASSAIC	41 07	74 30	1040	EST		8A				DIVISION OF WATER	3
CANOE BROOK	1335	ESSEX	PASSAIC	40 45	74 21	180	EST	9A	9A	18	18	18	N J DEPT OF CONSERV	2 3 5 6
CANTON	1343	SALEM	DELAWARE	39 28	75 25	8	EST		9A				GERTRUDE S WILLIS	3
CAPE MAY	1351	CAPE MAY	COASTAL	38 56	74 57	17	EST	5P	5P	23	60		RICHARD F UMFRID JR	2 3 4 5
CEDAR GROVE	1472	ESSEX	COASTAL	40 52	74 13	400	EST		8A				J A PLUNKETT	3
CHARLOTTEBURG	1582	PASSAIC	COASTAL	41 02	74 26	760	EST	4P	4P	56	56		NEWARK WATER DEPT	2 3 4 5
CHATAM	1590	MORRIS	PASSAIC	40 44	74 23	185	EST		8A	44	44		EDWARD P MOLITOR	3
CHATESWORTH	1598	BURLINGTON	COASTAL	39 48	74 32	90	EST	5P	5P	8	8		A L STEVENSON	2 3 5
CLAYTON	1708	GLOUCESTER	DELAWARE	39 39	75 06	120	EST	6P	6P	35	55		HARRY P CAMPBELL	2 3 5
CLINTON	1749	HUNTERDON	RARITAN	40 38	74 55	300	EST		6P		5		L W KLOCKNER	3
CULVERS LAKE	2130	SUSSEX	DELAWARE	41 10	74 47	760	EST		5P		47		L S DEPUE	3
DEEPWATER	2209	SALEM	DELAWARE	39 41	75 30		EST						DU PONT DE NEMOURS CO	3
ELIZABETH	2644	UNION	COASTAL	40 40	74 14	33	EST	5P	5P	69	69		UNION CO PARK COMM	2 3 5
ELIZABETHPORT	2652	UNION	PASSAIC	40 39	74 12	30	EST						SEWAGE TREATMENT PLT	3 4
ESSEX FELS	2773	ESSEX	PASSAIC	40 49	74 17	250	EST		8P		3		EDWARD T MICK	3
FLEMINGTON 2 MI NE	3029	HUNTERDON	RARITAN	40 30	74 52	134	EST	5P	5P	51	62		DONALD YOUNG	2 3 5
FORTESCUE	3102	CUMBERLAND	DELAWARE	39 14	75 10	5	EST		5P				F A RODENBAUGH	3
FREEHOLD	3181	MONMOUTH	RARITAN	40 15	74 17	194	EST	5P	5P	44	44		FRANK J MOREAU	2 3 4 5
GLASSBORO	3291	GLOUCESTER	COASTAL	39 42	75 07		EST						PROF SANGREE	3 4
GREAT MEADOWS	3416	WARREN	RARITAN	40 52	74 55	510	EST						HENRY TOPOLESKI	3 4
GREENWOOD LAKE	3516	PASSAIC	PASSAIC	41 09	74 20	660	EST		7A				WATER SUPPLY COMM	3
HAMMONTON	3662	ATLANTIC	MULLICA	39 38	74 48	95	EST	5P	5P	16	42		J G WILSON	2 3 5
HIGHTSTOWN	3951	MERCER	RARITAN	40 16	74 31	100	EST	8P	8P	52	55		JAMES R PICKERING	2 3 5
HIGHTSTOWN PUMPING STA	3956	MERCER	RARITAN	40 17	74 32	75	EST						DEPT WATER & SEWERS	3 4
INDIAN MILLS 2 MI W	4229	BURLINGTON	MULLICA	39 48	74 45	100	EST	8P	8P	58	59		EDWARD ENTWISTLE	2 3 5
IRVINGTON	4260	ESSEX	COASTAL	40 43	74 15		EST						SEWAGE TREATMENT PLT	3 4
JERSEY CITY	4339	HUDSON	COASTAL	40 44	74 04	135	EST	MID	MID	50	50		JERSEY CITY WTR DEPT	2 3 5
LAKEHURST AIRPORT	4596	OCEAN	COASTAL	40 02	74 19	128	EST						U S NAVY	3 4
LAKEWOOD	4627	OCEAN	COASTAL	40 06	74 13	54	EST	6P	6P	44	44		GEORGE G WADDILL	2 3 5
LAMBERTVILLE	4635	HUNTERDON	DELAWARE	40 22	74 57	75	EST	6P	6P	61	61		GEORGE BAILEY	2 3 5
LAYTON 3 MI NW	4735	SUSSEX	DELAWARE	41 13	74 50	480	EST	6P	6P	47	47		A M DEPUE	2 3 5
LITTLE FALLS WATER CO	4887	PASSAIC	PASSAIC	40 53	74 14	157	EST	9A	9A	34	45		PASSAIC VALLEY WTR CO	2 3 5
LONG BRANCH	4987	MONMOUTH	COASTAL	40 18	74 00	34	EST	MID	MID	40	40		STORM WARNING DIS STA	2 3 4 5
LONG VALLEY	5003	MORRIS	RARITAN	40 48	74 46	660	EST	7A	7A	18	18		ARTHUR BACKMAN	2 3 5
LUMBERTON	5055	BURLINGTON	DELAWARE	39 58	74 48	25	EST						MARY ELLEN SERVAN	3 4
MACOPIN INTAKE	5071	PASSAIC	PASSAIC	41 01	74 24		EST		9A				HAROLD QUACKENBUSH	3
MANVILLE	5197	SOMERSET	RARITAN	40 33	74 34	50	EST		MID		3		R R STONE	3
MARLBORO	5244	MONMOUTH	COASTAL	40 20	74 14	120	EST						GEROW BRILL	3 4
MARLTON 1 MI W	5252	BURLINGTON	DELAWARE	39 54	74 55	90	EST		6P		7		DAVID GRISCOM	3
MAYS LANDING	5346	ATLANTIC	GREAT EGG HARBOR	39 27	74 44	50	EST		5P		4		ELMER EARLE	3
MIDLAND PARK	5503	BERGEN	PASSAIC	40 59	74 09	210	EST		MID		2		HARRY MITCHELL	3
MILLVILLE	5576	CUMBERLAND	MAURICE	39 24	75 03	60	EST		MID		8		L J GALLAHER	3 4
MILLVILLE AIRPORT	5581	CUMBERLAND	MAURICE	39 22	75 05	76	EST	MID	MID	2	2		CIVIL AERO ADM	2 3 4 5
MILTON	5597	MORRIS	PASSAIC	41 01	74 32		EST		7A				JERSEY CITY WTR WORKS	3
MOORESTOWN	5728	BURLINGTON	DELAWARE	39 58	74 57	62	EST	MID	7A	85	85		JAPANESE BEETLE LAB	2 3 5
MORRIS PLAINS 1 MI W	5769	MORRIS	PASSAIC	40 50	74 30	400	EST	4P	4P	3	7		JAMES C LONG	2 3 5
NEWARK WB AIRPORT	6026	ESSEX	COASTAL	40 42	74 10	11	EST	MID	MID	49	94		U S WEATHER BUREAU	2 3 4 5
NEW BRUNSWICK	6062	MIDDLESEX	RARITAN	40 29	74 27	99	EST	5P	5P	91	94		NEW JERSEY EXP STA	2 3 5
NEW MILFORD	6146	BERGEN	HACKENSACK	40 57	74 02	12	EST		MID		30		HACKENSACK WATER CO	3 4
NEWTON	6177	SUSSEX	DELAWARE	41 03	74 45	769	EST	8A	8A	65	65		C M WHEELER	2 3 5
OAK RIDGE RESERVOIR	6460	PASSAIC	PASSAIC	41 02	74 30	870	EST		4P				DIV OF WATER NEWARK	3
ORANGE	6560	ESSEX	PASSAIC	40 47	74 14	140	EST		MID		8		COUNTY ENGINEER	3 4
PATERSON	6775	PASSAIC	PASSAIC	40 55	74 10	100	EST	8A	8A	78	77		P J DEL VECCHIE	2 3 5
PEMBERTON 1 MI E	6843	BURLINGTON	DELAWARE	39 58	74 41	60	EST	5P	5P	19	19		CHARLES A DOEHLERT	2 3 5
PHILLIPSBURG	6974	WARREN	DELAWARE	40 41	75 12	182	EST	10P	10P	57	65		TOWN ENGINEER	2 3 5
PHILLIPSBURG BRIDGE	6979	WARREN	DELAWARE	40 42	75 12		EST		8A		9		JOINT TOLL BRDG COMM	3
PLAINFIELD	7079	UNION	RARITAN	40 37	74 25	120	EST	8P	8P	57	60		S K PEARSON	2 3 5
PLAINSBORO	7095	MIDDLESEX	RARITAN	40 19	74 36	110	EST		6P		7		WALKER-GORDON LAB	3
PLEASANTVILLE	7131	ATLANTIC	COASTAL	39 25	74 31	8	EST	9A	9A	25	50	25	N J DEPT OF CONSERV	2 3 5 6
QUAKERTOWN	7372	HUNTERDON	DELAWARE	40 34	74 57	645	EST		ar				WILLIS W VAIL	3 4
RAHWAY	7393	UNION	RAHWAY	40 36	74 15	20	EST		MID		9		LOUIS FONTENELLI	3 4
RIDGEFIELD	7545	BERGEN	HACKENSACK	40 50	74 00	80	EST	MID	7P	31	31		GEORGE P KIRSTEN	2 3 5
RINGWOOD	7587	PASSAIC	PASSAIC	41 08	74 16	305	EST		10A		1		NO JERSEY WATER SUPP	3
RUNNEMEDE 1 MI W	7817	CAMDEN	DELAWARE	39 51	75 04	42	EST	9P	6P				HENRY D MOSHER	2 3 5
RUNYON	7825	MIDDLESEX	COASTAL	40 26	74 20	18	EST	6P	6P	24	25	25	N J DEPT OF CONSERV	2 3 5 6
RUTHERFORD	7833	BERGEN	PASSAIC	40 49	74 07	51	EST	8P	8P	4	4		HAROLD SCOTT	2 3 5
SANDY HOOK	7869	MONMOUTH	COASTAL	40 28	74 01	22	EST	7P	MID	50	50		U S COAST GUARD	2 3 4 5
SOMERVILLE	8194	SOMERSET	RARITAN	40 35	74 18	65	EST	6P	6P	62	65		W E HAVER	2 3 5
SPLIT ROCK POND	8402	MILTON	ROCKAWAY	40 58	74 28		EST		10A				JERSEY CITY D P W	3
SPRINGFIELD	8423	UNION	COASTAL	40 43	74 18		EST		MID				N J DEPT OF CONSERV	3 4
SUSSEX	8644	SUSSEX	HUDSON	41 13	74 36	450	EST	6P	6P	50	53		MARSHALL HUNT	2 3 5
SWEDESBO	8680	GLOUCESTER	DELAWARE	39 45	75 19	75	EST		6P		2		E F HURFF CO	3
SWEDESBO 5 MI NW	8685	GLOUCESTER	DELAWARE	39 47	75 24	10	EST		NOON		2		SUN OIL CO	3
TOMS RIVER	8816	OCEAN	COASTAL	39 57	74 14	33	EST		5P		27		ROBERT F SNYDER	3

STATION INDEX - Continued

NEW JERSEY
OCTOBER 1948

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. ° / '	LONG. ° / '	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
TRENTON NO 2	8878	MERCER	DELAWARE	40 14	74 46	105	EST	MID	MID	18	18		E H BISTOW	2 3 5
TRENTON WB CITY	8883	MERCER	DELAWARE	40 13	74 46	56	EST	MID	MID	76	76		U S WEATHER BUREAU	2 3 4 5 7
TUCKERTON	8899	OCEAN	COASTAL	39 36	74 20	23	EST	6P	6P	49	54		WALTER J WARREN	3
VINELAND	9135	CUMBERLAND	MAURICE	39 29	75 01	110	EST		5P	58	68		ROBERT JONES	3
WANAQUE RAYMOND DAM	9187	PASSAIC	PASSAIC	41 02	74 18	320	EST		8A		2		WATER SUPPLY COMM	3 4
WATCHUNG	9271	UNION	PASSAIC	40 40	74 25								BONNIE BURN SAN'TRM	3 4
WESTFIELD	9455	UNION	RAHWAY	40 39	74 21	135	EST		9A		9		TOWN ENGINEER	3 4
WOODCLIFF LAKE	9832	BERGEN	HACKENSACK	41 01	74 03	103	EST		MID		30		HACKENSACK WATER CO	3 4
WOODSTOWN 2 MI NW	9910	SALEM	DELAWARE	39 40	75 20	16	EST	6A	6A	2	12		CHARLES CLARK	2 3 5

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late for inclusion in this issue.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Data in Tables 3, 5 and 6 are for the 24-hours ending at time of observation. See the Station Index for observation time.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, river stages in feet, and wind movement in miles.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with windshield.
- 6 No recording gage, precipitation is measured at 6-hourly intervals.
- m One or more days of record missing; see Table 5 for detailed daily record.
- ar This entry in time of observation column in Station Index means after rain.
- r Station equipped with recording gage only. All amounts in Table 3 are from the non-recording gages, except for stations with this reference.
- x Daily precipitation totals in Table 3 are for the 24-hours ending at 1:30 A.M., E.S.T., of the following day.
- z Hourly amounts from the recording gage at the same site may be found in Table 4.
- T Trace, an amount too small to measure.

When hourly precipitation is accumulated over a period of 3 or more calendar days, with unknown hourly or daily distribution, the first and last days are shown in Table 4.

When hourly precipitation is missing for several days, only the first and last days are shown in Table 4.

Data in Table 4 were formerly published in the Hydrologic Bulletin for North Atlantic District. Amounts in this table are from recording gages. Traces are not shown.

Subscription Price: 15¢ per copy; \$1.50 a year. (Yearly subscription includes Annual Summary. Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, Federal Building, Albany 1, N.Y.)

W.B.O, Washington, D.C. - - - 1-10-49 - - - 1100 - - -

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CLIMATOLOGICAL DATA

NEW JERSEY

NOVEMBER 1948

Volume LIII No. 11



ALBANY · 1949

NEW JERSEY - NOVEMBER 1948

A. E. White, Section Director - Trenton

GENERAL SUMMARY

November averaged the warmest of record in New Jersey with one exception, that being in 1931 when the month averaged 0.5° higher. It was almost continuously warmer than normal. The period from the 4th to 7th was unusually warm and readings of 80° or higher were registered at a number of stations on the afternoon of the 6th. The reading of 83° at Little Falls equaled the State record for November which occurred in 1929. The 20th was also a very warm day with readings as high as 75° at some stations. There was some comparatively cool, though little subnormal weather, during the last week. Most stations registered their monthly minima on the 30th. The mild weather of the month seemed much like a continuation of October which was slightly colder than normal.

Precipitation for the State averaged 143 percent of normal but varied greatly in different areas. The most rain fell in the southern quarter of the State where monthly totals were above six inches. Rains were frequent. The heaviest falls at most stations occurred on the 29th, but heavy amounts fell on other dates in some localities, particularly on the 10th at Atlantic City where 3.02 inches fell within 24 hours. The copious rains were beneficial in restoring soil moisture after a rather dry fall season. Measurable snowfall occurred on the 29th at several north Jersey stations, but most localities had either a trace or none at all for the month. There were no destructive storms.

TEMPERATURE

The monthly mean temperature of the State, as computed from observations of 44 stations, was 49.8, which was 5.9 above normal. The highest temperature was 83° at Little Falls on the 7th, and the lowest, 17°, at Layton on the 30th. The highest monthly mean temperature was 52.7° at Burlington, and the lowest, 45.9° at Newton. The temperature departure from the normal for the year, 1948, to date, for the State is 0.3

PRECIPITATION

The mean total precipitation of the State, as computed from observations of 47 stations, was 4.56 inches, which was 1.40 inches above normal. The average total snowfall was 0.1 inch, which was 1.2 inches below normal. The greatest monthly precipitation was 8.87 inches, at Atlantic City, and the least, 2.53 inches at Manville. The greatest amount of precipitation in any 24 consecutive hours was 3.02 inches at Atlantic City on the 10th. The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, - 2.44 inches, Red Sandstone Plain, 1.04 inches; Southern Interior, 5.23 inches; Sea Coast, 7.95 inches. The average for the Highlands was 4.55 inches; for the Red Sandstone Plain, 3.64 inches; for the Southern Interior, 5.40 inches; and for the Sea Coast, 5.70 inches.

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ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages -- mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U.S. Weather Bureau, Washington 25, D.C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

NEW JERSEY
NOVEMBER 1948

STATIONS	SEA LEVEL PRESSURE EXTREMES—INCHES				WIND				RELATIVE HUMIDITY AVERAGES				SUN- SHINE	DEGREE DAYS 65° BASE
	HIGHEST	DATE	LOWEST	DATE	AVERAGE SPEED M.P.H.	MAXIMUM SPEED M.P.H.	DIRECTION	DATE	1:30A EST	7:30A EST	1:30P EST	7:30P EST	AVERAGE PERCENT	
ATLANTIC CITY WB	30.48	8	29.65	29	16.3	47	NE	29	81	86	70	77	62	375
LONG BRANCH	30.44	8	29.61	20	12.0	37	NW	13		83	69	77		450
NEWARK WB AIRPORT	30.45	8	29.61	20					81	84	60	72		433
TRENTON WB CITY	30.45	8	29.64	20	8.4	28	S	6		81			46	417

TABLE 1
COMPARATIVE DATA

YEAR	TEMPERATURE			PRECIPITATION			YEAR	TEMPERATURE			PRECIPITATION		
	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE		MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE
1885	44.8	76	18	4.53			1920	43.0	74	12	4.41	0.2	10
1886	44.5	73	17	4.49			1921	44.3	79	18	4.26	0.1	14
1887	41.5	72	13	1.94		6	1922	44.3	73	13	0.91	0.2	6
1888	45.8	77	8	3.97		10	1923	43.1	72	11	2.51	0.0	7
1889	45.7	69	13	8.48		13	1924	42.9	77	1	2.03	1.3	5
1890	43.8	74	11	0.82		8	1925	42.0	76	10	3.40	0.7	9
1891	42.2	70	6	2.39		4	1926	42.5	76	8	4.04	T	9
1892	41.9	71	12	7.29		11	1927	47.9	78	15	4.02	0.1	11
1893	41.8	70	11	3.48		7	1928	45.1	78	13	1.90	0.3	9
1894	40.3	76	11	3.34		10	1929	44.5	83	4	2.73	0.4	10
1895	45.7	80	12	3.17	0.0	10	1930	44.1	73	2	3.70	0.2	9
1896	48.2	78	12	3.05	3.2	8	1931	50.3	80	14	0.82	1.6	6
1897	43.8	74	10	4.59	1.3	12	1932	42.0	71	3	7.81	T	9
1898	42.4	70	11	6.76	14.7	14	1933	40.6	78	7	1.01	0.6	7
1899	44.0	71	17	2.29	1.1	7	1934	47.3	80	10	2.91	0.1	11
1900	47.5	79	15	3.43	T	9	1935	47.8	78	8	4.95	2.1	13
1901	38.5	69	10	2.38	0.8	6	1936	41.1	80	3	1.18	1.3	6
1902	49.3	80	20	2.20	0.2	8	1937	43.7	72	10	4.56	0.2	9
1903	39.9	79	3	1.26	T	6	1938	45.6	80	7	3.42	12.6	12
1904	40.2	69	6	2.18	1.6	6	1939	41.5	78	12	1.86	0.2	4
1905	42.1	70	6	1.84	0.1	6	1940	43.5	76	10	4.66	1.0	10
1906	43.6	70	8	1.61	2.3	6	1941	46.8	78	13	2.90	0.0	5
1907	43.5	68	13	5.65	0.8	13	1942	44.9	78	12	4.14	T	10
1908	43.1	72	2	0.96	2.2	4	1943	42.4	73	9	2.89	T	6
1909	46.4	80	12	2.36	2.1	8	1944	43.9	76	13	6.44	0.9	9
1910	40.4	71	13	3.79	1.4	9	1945	46.1	80	11	5.54	2.1	12
1911	41.3	73	13	5.17	1.7	10	1946	48.3	78	10	1.45	T	7
1912	45.3	76	11	3.43	1.3	6	1947	42.0	67	10	6.49	T	10
1913	46.2	77	21	2.71	T	7	1948	49.8	83	17	4.66	T	13
1914	43.3	80	6	2.60	0.7	6	Period	43.9	83	7	3.26	1.3	8
1915	44.0	75	17	1.69	0.0	8							
1916	43.3	75	12	2.11	T	8							
1917	39.8	68	9	0.56	0.7	3							
1918	43.9	71	12	1.87	0.0	7							
1919	43.7	76	13	3.74	T	11							

CLIMATOLOGICAL DATA

NEW JERSEY
NOVEMBER 1948

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
ATLANTIC CITY WB	52.6	7.0	66	6+	34	30			8.87	6.05	3.02	10				14	9	3
BELLEPLAIN	50.9	6.1	78	5	25	26		9	7.67	4.92	2.15	29				18	9	1
BELVIDERE	48.8	7.3	78	6	24	30		7	4.36	.98	.85	7				13	8	
BOONTON	47.3	5.6	77	7	22	30			4.19	.59	1.18	20				12	6	1
BRIDGETON	51.4	5.6	74	6	29	30		3	6.99	4.17	1.28	29				14	10	3
BURLINGTON	52.7	6.9	77	6	28	26		3	3.69	.52	1.10	29				13	5	1
CANOE BROOK	47.7	5.9	78	7	18	30		15	3.47	.36	.65	20				12	5	
CAPE MAY			69	5+					6.51	3.87	1.53	29				16	9	1
CHARLOTTEBURG	47.0	6.0	74	6	18	26		12	4.75	.97	1.36	20	1.0	T	29	12	6	2
CHATSWORTH	50.7		80	6	22	26		12	5.08							15		
CLAYTON	51.3	6.6	77	6	26	30		2	5.65	2.79	1.05	29				15	9	2
ELIZABETH	51.0	7.0	79	6	24	30		5	3.06	.18	.76	29	T			13	5	
FLEMINGTON	48.6	4.8	78	6	21	30		11	4.42	1.21	1.34	4				13	5	1
FREEHOLD	51.4	6.5	78	5+	26	30		2	4.52	.59	1.08	29				15	6	1
HAMMONTON	51.9	8.7	82	6	26	27+		4	6.93	3.76	2.54	28				10	8	2
HIGHTSTOWN	50.1	6.2	79	6	25	26+		6	3.43	.17	.92	29	T			12	5	
INDIAN MILLS 2 MI W	49.9	5.9	80	5	22	26		11	4.90	1.78	1.48	29				15	5	1
JERSEY CITY	49.7	4.7	77	6	31	30		2	3.56	.40	.75	29	T			13	6	
LAKEWOOD	49.4	5.4	78	6	23	26		12	5.50	2.40	1.49	29				15		
LAMBERTVILLE	49.5	6.2	79	6	23	30			4.40	1.18	.92	7				12	7	
LAYTON 3 MI NW	46.4	6.9	77	6	17	30		18	5.42	2.27	1.27	20	T			10	7	2
LITTLE FALLS WATER CO	49.7	6.5	83	7	23	30		5	3.50	.03	.76	20	0.2	T	29	12	5	
LONG BRANCH	50.0	5.4	73	6	30	30		3	4.68	1.29	1.14	10				14	6	1
LONG VALLEY	46.8	5.7	76	7	22	26		17	4.15	.33	1.25	20				10	6	1
MIDLAND PARK					20	30		13	3.83		.65	4		T	29	11	7	
MILLVILLE AIRPORT	49.8		75	5	27	26+		7	6.37		1.37	28				16	9	1
MOORESTOWN	49.5	6.3	78	6	27	30		5	4.11	.87	1.20	29				12	5	1
MORRIS PLAINS	48.6		77	6	24	26		11	4.27		.94	20	0.3	T	29	12	6	
NEWARK WB AIRPORT	50.8	6.8	80	6	28	30		2	2.96	.47	.72	29	T			13	4	
NEW BRUNSWICK	50.6	6.8	80	6	26	26+		4	3.16	.18	.71	29				14	6	
NEWTON	45.9	4.9	76	7	18	30		15	4.48	1.25	.98	20	1.4	1.0	29	13	7	
PATERSON	51.2	7.4	79	7	29	30		2	4.44	1.14	1.14	20	T			13	6	1
PEMBERTON 1 E	50.9	4.5	80	6	25	26		9	4.49	1.26	1.14	29				14	7	1
PHILLIPSBURG	47.0	5.0			24	30		9	3.93	.76	.80	7	T			12	7	
PLAINFIELD	50.0	6.9	80	6	23	30		10	3.36	.02	.75	29	T			13	6	
PLEASANTVILLE	49.4	4.3	73	21	25	26		10	7.51	4.48	2.05	29				16	10	1
RIDGEFIELD	49.5	6.3	78	6	25	30		4	3.56	.38	.75	29	T			12	5	
RUNNEMEDE	50.0		80	6	25	30		7	4.94		1.01	29				16	7	1
RUNYON			76	6					3.43	.06	.82	30				10	6	
RUTHERFORD	51.2		76	6+	28	30		3	3.81				0.2			13		
SANDY HOOK	52.2	6.4	72	6	36	30			3.17	.08	.77	29	T			13	5	
SOMERVILLE	49.3	6.4	79	6	22	30		10	3.26	.17	.80	29				12	5	
SUSSEX	47.5	6.0	77	6	20	30		12	4.73	1.39	.83	7	T			12	7	
TRENTON NO 2	50.4	5.6	78	6	28	30		4	3.93	.29	.67	29				13	7	
TRENTON WB CITY	51.2	6.8	77	6	32	30		1	3.11	.38	.67	29				13	4	
TUCKERTON 1 S	50.7	5.0	73	20	29	30		4	6.86	3.74	1.87	29				12	7	3
WOODSTOWN 2 NW	49.3		76	7	27	30		6	5.70		1.51	29				14	6	2
STATE	49.8	5.9							4.66	1.40								

EVAPORATION AND WIND MOVEMENT

Table 6

Station		Day of month																															Total	Departure from normal	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
CANOE BROOK	EVAP WIND	.080 4	.048 9	.048 7	6	8	*	6	42	.112 20	.048 1	.032 6	.052 16	.064 9	1	.064 46	.064 10	.032 12	.014 5	.032 11	.032 2	.010 33	.096 18	.032 18	.006 1	.064 7	.016 2	9	.054 12	.032 17	*	.070 6	5	1.190b 349	
PLEASANTVILLE	EVAP WIND	.032 37	.032 25	.064 66	.006 40	.012 52	.048 63	.050 135	.160 41	.064 18	.092 47	.064 44	.096 85	.046 17	.056 59	.096 44	.032 34	.090 34	*	*	6	116	.074 47	41	.024 41	.014 16	.084 29	41	.076 55	.116 56		.048 67	71	1.640b 1455	
RUNYON	EVAP WIND	.080 11	.080 15	.080 13	.030 18	.080 10	.080 10		.080 14	.060 12	.060 12		.060 14	.040 15		.060 10	.050 15	.040 12	.040 13		.040 12	.020 6	.020 7	.030 15	.010 10		8	.040 7	.040 8	.080 8	.050 8	.010 6	.020 16	.020 20	1.230 358

TABLE 7
DAILY RIVER STAGES (FEET)

RIVER AND STATION	FLOOD STAGE	DAY OF MONTH																														HIGHEST (OR CREST)	DATE	LOWEST	DATE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
DELAWARE TRENTON	12	00.0	-00.1	-00.1	-00.1	00.0	00.4	00.5	00.9	01.0	01.7	01.4	01.2	01.0	00.9	00.8	00.6	00.5	00.6	00.5	00.8	01.2	01.8	02.1	02.1	01.9	01.8	01.5	01.4	01.6		2.1	234	-00.1	2+

The following reference notes apply only to Table 7 - Daily River Stages:

Readings are made at approximately 7 a.m. (local time). They are provisional and subject to correction. Final and corrected stages will be published in the annual publication "Daily River Stages - Principal Rivers of the United States".

- a Obstructed by rough ice.
b Frozen hut open at gage.
c Upper surface of smooth ice.
d Ice gorge above gage.
e Ice gorge below gage.

- f Shore ice.
g Floating ice.
h Pool stage.
i Dry at gage.
j Interpolated.

See reference notes following Station Index.

DAILY PRECIPITATION

NEW JERSEY
NOVEMBER 1948

Table 3

Station	Day of Month																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ATLANTIC CITY WB	T		.07	.18	T		.27			3.02		T	.48				.30		.02	.57		.09	T	.08	.45		.94	1.24	1.16			8.87
MASS RIVER STATE FOREST			.20	T			.44			1.14			.31				.16		*	.55		*	*	*	.51		.83	*	*			6.29
HELLEPLAIN	.08		.10	.14	.04	.05	.50			.50			.36				.46		.20	.08	.15	.53		.15	.53		.85	.48	2.15	.10	7.67	
HELMAR			.02	.08	.01	T	.38			1.78			.18				.07	T	.12	.65		.08	T	.05	.20	T	.53	.20	.90	T	5.25	
HELVIDERE			.06	.74	T		.85		T	.02	.54		.10				.15		.30	.25		.20	.25		.20	T	.30		.60		4.36	
BERLIN 1 W				.52			.72				.20			.18						.16			.30		.38				1.62	.15	4.23	
BOONTON				.82	T	.02	.45			T	.49		.08	.03			.08			1.18			.31				.11		.53	.09	4.19	
BRIDGETON		.06	T	.35			1.12			.22			.31				.31		.20	.42		.36		.13	.40		.78	1.05	1.28		6.99	
BRIDGETON NO 2			T	.33		T	.75	T		.27	.27		.23	.09			.27	T	.43			T	.37	.09	.38		.70		2.13	.20	6.32	
BROOKLAWN			T	.48			1.05			.29			.16				.12		.04	.20		.08	.16			T	.72	*	1.20		4.50	
BURLINGTON			.02	.41			.60			.30			.10				.12		.23			.10	.05		.05		.60	.01	1.10		3.69	
CANISTEAR RESERVOIR			.95			.03	.65			.57	.03		.10				.09		.01	1.50		.16	.18				.21		.28		4.78	
CANE BROOK			.50		.04	.01	.49			T	.50		.08	T			.11		*	.65			.23				.15		.62	.09	3.47	
CANTON		.26		.12			1.05			.20			.15				.17		.40			.30	.08	.39			.68		2.10	.17	6.07	
CAPE MAY	2	.13	.12				.70			.33	.07		.55				.56		.02	.39		.22	.13	.14	.57		.55	.50	1.53	T	6.51	
CECIL GROVE				.60	.04	.08	.46			.04	.60		.10	.04			.10			.90			.25				.16		.50		3.87	
CHARLOTTEBURG	2			1.10		.02	.37			.57			.08				.05		.01	1.36		.16	.29				.24		.50		4.75	
HATHAM				.62	.02	T	.47			.02	.46		.09	T			.09	T		.63	T		.22				.14	.03	.56	.06	3.41	
HATSWORTH			*	.16			.44			.83	T		.23				.15		*	.74		.10	*	.05	.18		.58	*	1.62		5.08	
HAYTON	T		.08	.41			.91			.33			.45				.01		.04	.35		.42	.10	.05	.03		1.01	.41	1.05		5.65	
ELINTON			.03	.60			.64			.32			.10				.10		.10	.66		.15	.09				.22		.67		3.68	
FULVERS LAKE				.68			.90			.75			.08				.08		.35	.79		.21	.16				.24		.33		4.57	
DEEPWATER			.06			.20	.25			.18			.18				.08		.17			.27		.38				.71	.22		2.70	
ELIZABETH			.17	.21			.34			.54	.03		.10				.09		.05	.29		.05	.13				.30		.76		3.06	
ELIZABETHPORT	r		.16	.28			.24			.53			.09				.05		.07	.18		.10	.02				.32	.04	.66		2.74	
ESSEX FIELDS				.63	T	T	.02	.48	T	.59			.90	T			.10		T	.67		.23					.18	T	.57	T	4.37	
FLEMINGTON			T	1.34	.02		.74		.02	.30	T		.18				.13		.06	.47		.10	.15				.24		.67		4.42	
FORTESCUE		.42	.01	.10			1.26			.39	.04		.16				.19		T	.87		.16	.19	.07	.38		.71	.59	1.23		6.77	
FREEDHOLD	2		.13	.14			.40			.60	.16		.30				.08		.11	.70		.04	.07	.05	.01		.65		1.08		4.52	
GLASSBORO	r		.12	.38		.07	.71			.30			.26				.20		.07	.24		.35	.01	.05	.31		.75	.88	.65		5.35	
GREAT MEADOWS			.06	.48			.72			.38			.10				.12		.53	.35		.43					.26	.03	.30		3.76	
GREENWOOD LAKE	r			.81	.13	.03	.33			.54			.10		.02		.05			1.15	.25		.45				.15	.08	.26	.12	4.48	
HAMMONTON			.54				.82			.32	T		.23				T		1.09			.26	.14	.34			.65	2.54			6.93	
HIGHTSTOWN		.09	.10				.63		T	.32			.10				.08		.02	.39		.12	T		.03		.63		.92		3.43	
HIGHTSTOWN PUMPING STA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01	.63	.15	.75		-	-	
INDIAN MILLS 2 W			.06		.40		.78			.23	.01		.23				.10		T	.43		.08	.11	.04	.11		.64	.20	1.48		4.90	
IRVINGTON	r		.22	.14			.39			.49			.11				.19		.36			.16	.02	.08	.52		.29	.08	.52		2.97	
JERSEY CITY			.09	.60			.30			.71			.09				.07		.12	.30		.19	.06				.25	.03	.75		3.56	
LAKEHURST AIRPORT	r		.01	T	T	T				.04	T		.03				.03		*	.25		.01		.02	.03		.25	.04	.51		1.22	
LAKEWOOD			.05	.10			.37			*	1.32		.31				.08		*	.93		*	.09	.04	.16		.56		1.49		5.50	
LAMBERTVILLE			.02	.79			.92			.27			.12				.12		.27	.32		.14	.07				.59		.77		4.40	
LAYTON 3 NW				.94		1.24				.61			.07				.07		.41	1.27		.31	.08				.16		.33		5.42	
LITTLE FALLS WATER CO	2		.49			.49				.08	.43		.08	.03			.07			.76		.23					.16		.67	.01	3.50	
LONG BRANCH	2		.07	.08			.37		T	1.14			.26				.05		.15	.72		.14		.05	.12		.44	.10	.99		4.68	
LONG VALLEY	2		.66	.08		.75				T			T	.10				.10		1.25			.30		.12		.30	.45	.16		4.15	
LUMBERTON			.04	.16			.57			.15			.22				.11		.07	.28		.17			.08		.70	.49	.76		3.80	
MACOPIN INTAKE				1.28	.07	.04	.45			.10	.57		.10				.10			1.51		.43					.27	.03	.53	.03	5.57	
MANTVILLE			.09	.24	.15		.38			.20			.03				.02		.15	.03		.10		T			.34	T	.80		2.53	
MARLBORO	r		.10	.09			.33			.57			.19				.04		.02	.59		.09	.02				.57	.07	.79		3.47	
MARLTON 1 W			.15	.33		.67				.22			.22				.12		.05	.22		.18	.04	.04	.10		.80	.20	1.24		4.58	
MAYS LANDING	.05		.16	.13	T		.49			.72	.30		.27				.18		.20	.60		.28	.13	.09	.49		.38	1.75	1.00		7.22	
MIDLAND PARK			.17	.65			.40			.60			.14				.14		.49	.42		.38	.04				.18		.36		3.83	
MILLVILLE	2	.02	.01	.11			.98			.28	.01		.25				.31		.11	.69		.32		.09	.39		.77	1.33	.92		6.	

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
												-2d-													
CAPE MAY	.01	.01	.06	.02																					.10
MILLVILLE				.02																					.02
MILLVILLE AIRPORT 6			*	*	*	*	*	.10																	
ORANGE													.01												.01
												-3d-													
ATLANTIC CITY WB											.06					.01									.07
CAPE MAY											.06	.04	.01	.01											.11
CHARLOTTEBURG																	.03	.12	.01	.04	.01		.02	.23	
ELIZABETHPORT																	.10	.05	.01					.16	
FREEHOLD																.04	.04	.01						.11	
GLASSBORO														.01								.01	.10	.12	
GREAT MEADOWS																			.01	.01	.02	.01	.01	.06	
IRVINGTON																	.01	.11	.09		.01			.22	
LAKEHURST AIRPORT																	.01	.01						.01	
LITTLE FALLS WATER CO																	.01	.07	.10	.02	.03		.01	.25	
LONG BRANCH																.01	.03	.03					.01	.07	
LUMBERTON																						.02	.01	.04	
MARLBORO																.06	.03				.01			.10	
MILLVILLE																								.01	
MILLVILLE AIRPORT 6									*	*	*	*	*	.01						*	*	*	*	.01	
NEWARK WB AIRPORT																		.06	.07		.01			.14	
NEW MILFORD																		.01	.01		.01	.01		.04	
ORANGE																.01	.08	.04	.02		.01			.16	
QUAKERTOWN																		.04	.05			.02	.02	.13	
RAHWAY																.01	.11			.01	.01		.01	.16	
SANDY HOOK																.03								.03	
SPRINGFIELD																.01	.09	.07	.01				.02	.20	
TRENTON WB CITY																		.01		.01				.02	
WANAQUE RAYMOND DAM																		.06	.09	.02	.02	.01		.21	
WATCHUNG</																									

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HOURLY PRECIPITATION

NEW JERSEY

NOVEMBER 1948

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
MARLBORO							.01	.03	.09	.06	.04	.14				.04	.03		.06	.03	.04				.57
MILLVILLE							.07	.01	.04	.01	.03				.06	.06									.28
MILLVILLE AIRPORT 6								*	*	*	*	*													
NEWARK WB AIRPORT							.03	.07		.14	.02	.11	.12	.07	.01	.09	.01		.03		.02				.70
NEW MILFORD	.03	.01					.05	.02	.10	.02	.07	.08	.05	.04	.17	.01			.01	.02	.02				.69
ORANGE							.02	.02	.09	.08	.02	.01	.08	.05	.07				.01	.01					.46
QUAKERTOWN							.02	.10	.04	.04	.04	.04	.10	.02											.40
RAHWAY							.01	.05	.07	.05	.11	.05	.06	.01	.05	.06	.01		.01	.02					.55
SANDY HOOK							.01	.10	.08	.03	.05	.03				.03			.13	.04	.06				.56
SPRINGFIELD							.02	.01	.09	.08	.06	.01	.05	.09	.02										.43
TRENTON WB CITY								.05	.07	.05	.03	.01		.02											.23
WANAQUE RAYMOND DAM								.02	.04	.04	.02	.06	.19	.03	.01										.44
WATCHUNG								.05	.07	.05	.03	.04	.04	.13	.01										.42
WESTFIELD								.08	.08	.04	.04	.04	.07	.08	.01										.40
WOODCLIFF LAKE										.14	.03	.01	.02	.13	.08	.22									.63
-11th-																									
MILLVILLE	.01																								.01
MILLVILLE AIRPORT 6		*	*	*	*	*		.04																	
-12th-																									
CHARLOTTEBURG																						.04			.04
-13th-																									
ATLANTIC CITY WB	.01	.07	.10		.06	.05	.04	.04	.03	.04	.02					.02									.48
CAPE MAY	.04	.17	.07	.01	.04	.01	.03	.02	.04	.07	.01	.01	.01												.53
CHARLOTTEBURG	.02		.01																						.03
ELIZABETHPORT				.04	.03	.01	.01	.02	.01	.01		.01				.09	.01	.02							.09
FREEHOLD				.06	.04	.01	.01	.02	.01	.01						.04									.28
GLASSBORO			.04	.01	.01	.01	.08	.06	.01																.26
GREAT MEADOWS	.02	.04	.01	.01	.01	.01																			.10
IRVINGTON	.01	.03	.02	.02	.02	.01																			.11
LAKEHURST AIRPORT									.01							.02									.03
LITTLE FALLS WATER CO	.02	.02	.01	.01	.01											.02									.09
LONG BRANCH			.03	.04	.07	.01	.01	.02								.08									.26
LUMBERTON		.02	.04	.02	.03	.01	.04	.02								.04									.22
MARLBORO			.01	.03	.04	.01	.02	.01		.02	.01					.07									.19
MILLVILLE	.03	.04	.02	.02	.04	.04	.03			.03	*	*	*	*	.14		.03								.25
MILLVILLE AIRPORT 6	*	*	*	*	*	*	.15	*	*	*	*	*	*	.14											
NEWARK WB AIRPORT	.01		.03	.02	.01																				.07
NEW MILFORD		.02	.02	.02	.02																				.08
ORANGE	.01	.01	.02	.02			.01																		.07
QUAKERTOWN	.02	.02	.01	.01																					.06
RAHWAY			.05	.04	.01																				.10
SANDY HOOK			.01	.05	.04	.01		.01		.01					.01	.01									.14
SPRINGFIELD			.04	.02				.01		.01															.08
TRENTON WB CITY			.02	.02	.01	.01		.01		.01						.04									.09
WANAQUE RAYMOND DAM	.01	.02	.01	.02	.01																				.07
WATCHUNG	.01	.01	.05	.02						.02	.01														.12
WESTFIELD		.02	.01	.03	.02																				.08
WOODCLIFF LAKE	.01	.01	.01	.02	.02	.01	.01																		.09
-17th-																									
ATLANTIC CITY WB					.03	.09	.09	.05	.01	.03															.30
CAPE MAY				.04	.11	.21	.11	.03	.03																.53
CHARLOTTEBURG			.02	.01	.03																				.06
ELIZABETHPORT			.02	.02	.02	.01																			.05
FREEHOLD			.01	.03		.01	.02	.01																	.08
GLASSBORO	.03	.01	.03	.04	.07	.02				.01															.20
GREAT MEADOWS	.02	.04	.03	.03																					.12
LAKEHURST AIRPORT			.01	.01	.01																				.03
LITTLE FALLS WATER CO					.01	.01	.01	.01	.01																.03
LONG BRANCH		.01	.02	.01			.01	.01																	.05
LUMBERTON		.03	.01	.02	.01	.04																			.11
MARLBORO		.02	.01							.01															.04
MILLVILLE	.02		.04	.12	.12	.01					*	*	*	*	.07										.31
MILLVILLE AIRPORT 6	*	*	*	*	*	*	.23	*	*	*	*	*	*	*											
NEWARK WB AIRPORT		.02	.02	.01																					.05
NEW MILFORD			.01	.02	.01		.01																		.04
ORANGE			.04	.02	.01																				.07
QUAKERTOWN		.02	.03	.01	.02	.02	.02	.01																	.10
RAHWAY		.02	.02	.02	.03	.01	.01																		.09
SANDY HOOK			.02	.01																					.03
SPRINGFIELD	.01	.04	.02	.01	.01			.01																	.09
TRENTON WB CITY	.01	.03	.01	.01	.01	.01																			.07
WANAQUE RAYMOND DAM		.01	.01	.03	.01																				.06
WATCHUNG	.03	.05	.03	.03	.01																				.12
WESTFIELD		.07	.01	.02	.01																				.11
WOODCLIFF LAKE		.02	.01	.01																					.04
-19th-																									
ATLANTIC CITY WB																							.02		.02
CAPE MAY																						.04			.02
CHARLOTTEBURG																.09	.21	.18	.04	.01	.02	.01			.06
ELIZABETHPORT																	.06								.01
FREEHOLD																									.03
GLASSBORO																.01									.07
GREAT MEADOWS														.01	.01	.01	.17	.07	.16	.04	.05				.53
IRVINGTON																.03	.03	.11							.0

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HOURLY PRECIPITATION

NEW JERSEY

NOVEMBER 1948

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
LONG BRANCH			.04	.04	.02	.05	.14	.12	.02			.01													.44	
LUMBERTON			.14	.04	.03	.14	.17	.18																	.70	
MARLBORO			.05	.05	.02	.06	.21	.13	.02	.02	.01														.57	
MILLVILLE			.09	.06	.04	.08	.20	.26	.04																.77	
MILLVILLE AIRPORT 6	*	.01	*	*	*	*	*	.60	*	*	*	*	*	.17												
NEWARK WB AIRPORT		.01	.02	.05	.07	.05	.02	.02		.02															.26	
NEW MILFORD		.01	.01	.04	.01	.01	.01		.04	.02	.01														.16	
ORANGE		.01	.04	.03	.02	.02	.01	.02	.01	.01															.17	
QUAKERTOWN	.04	.04	.06	.01	.01																				.16	
RAHWAY		.07	.02	.02	.09	.05	.02	.02	.01																.30	
SANDY HOOK		.05	.04	.01	.06	.24	.07	.03	.01																.51	
SPRINGFIELD			.03	.04	.03	.04																			.14	
TRENTON WB CITY		.02	.06	.04	.05	.09	.18	.07	.03																.54	
WANAQUE RAYMOND DAM		.02	.03	.03	.04	.01	.01	.06	.01																.21	
WATCHUNG			.03	.05	.03	.06	.01	.02																	.20	
WESTFIELD	*	*	*	.21	.02	.04	.02	.01		.01	.03	.01													.30	
WOODCLIFF LAKE	.01	.01	.02	.03			.01	.03																	.16	
-28th-																										
ATLANTIC CITY WB										.05	.10		.09	.14	.09	.08	.05	.07	.07	.09	.11	.18	.05	.07	1.24	
CAPE MAY													.05	.12	.14	.10	.08	.09	.16	.10	.12	.11	.08	.10	1.25	
CHARLOTTEBURG																						.01	.01	.02		
ELIZABETHPORT																								.04	.04	
FREEHOLD															.05	.09	.06	.09	.08		.01	.03	.02	.01	.18	
GLASSBORO																.05	.09	.06	.09	.08	.07	.11	.05	.03	.11	.88
GREAT MEADOWS																								.03	.03	
HIGHTSTOWN PUMPING STATION																					.01	.04	.01	.09	.15	
IRVINGTON																							.01	.07	.08	
LAKEHURST AIRPORT																						.02	.02	.01	.05	
LITTLE FALLS WATER CO																							.01	.09	.10	
LONG BRANCH																	.01	.03	.06	.07	.09	.08	.03	.12	.49	
LUMBERTON																								.07	.07	
MARLBORO																		.01	.03	.06	.07	.09	.08	.03	.12	
MILLVILLE												.11	.06	.14	.10	.22	.06	.08	.08	.09	.11	.06	.12	.10	1.33	
MILLVILLE AIRPORT 6									*	*	*	*	*	.30	*	*	*	*	*	.56	*	*	*	*	*	
NEWARK WB AIRPORT																							.01	.01	.02	
ORANGE																							.01	.03	.04	
QUAKERTOWN																								.05	.05	
RAHWAY																								.08	.08	
SANDY HOOK																							.01	.06	.07	
SPRINGFIELD																							.01	.08	.09	
TRENTON WB CITY																					.04	.05	.01	.01	.07	
WATCHUNG																								.08	.08	
WESTFIELD																								.10	.10	
WOODCLIFF LAKE																								.01	.01	
-29th-																										
ATLANTIC CITY WB	.06	.08	.04	.07	.09	.27	.09	.09	.05	.06	.08	.08	.05		.02	.01	.01	.01							1.16	
CAPE MAY	.06	.03	.04	.02	.10	.10	.03	.07	.01	.05	.04	.04	.01	.03	.03	.02	.02								.70	
CHARLOTTEBURG	.04	.02	.04	.03	.05	.05	.06	.03	.04	.03	.02	.05	.01	.01											.48	
ELIZABETHPORT	.05	.05	.02	.05	.11	.09	.06	.07	.07	.05	.03	.01													.66	
FREEHOLD	.08	.04	.06	.09	.16	.14	.09	.04	.07	.04	.04	.01	.01												.83	
GLASSBORO	.08	.05	.11	.10	.16	.08	.03	.04																	.65	
GREAT MEADOWS	.06	.05	.03	.03	.02	.01							.10												.30	
HIGHTSTOWN PUMPI G STATION	.09	.04	.04	.08	.12	.10	.08	.07	.05	.03	.03	.02													.75	
IRVINGTON	.04	.03	.04	.05	.09	.07	.04	.04	.06	.05	.01														.52	
LAKEHURST AIRPORT	.01	.04	.03	.03	.04	.07	.20	.05	.02		.01				.01										.51	
LITTLE FALLS WATER CO	.03	.04	.05	.07	.08	.13	.09	.08	.02	.01	.01														.61	
LONG BRANCH	.08	.05	.04	.08	.15	.14	.14	.10	.08	.05	.05	.02			.01										.99	
LUMBERTON	.06	.05	.08	.08	.11	.12	.10	.06	.05	.02	.02	.01													.76	
MARLBORO	.11	.03	.04	.08	.12	.11	.09	.05	.07	.03	.03	.02	.01												.79	
MILLVILLE	.11	.01	.01	.05	.10	.14	.10	.14	.06	.04	.06	.10													.92	
MILLVILLE AIRPORT 6	*	.52	*	*	*	*	*	.39	*	*	*	*	*	.22	*	*	*	*	*	.02						
NEWARK WB AIRPORT	.11	.04	.03	.05	.10	.08	.07	.07	.05	.06	.04	.01	.01												.72	
NEW MILFORD		.01	.02	.05	.08	.07	.08	.07	.07	.06	.05	.01													.57	
ORANGE	.08	.04	.01	.06	.06	.08	.05	.04	.03	.04	.06	.02													.57	
QUAKERTOWN	.01	.01		.02	.02	.04	.42	.02	.04	.01	.01														.60	
RAHWAY	.01	.03	.03	.05	.10	.04	.01	.06	.09	.05	.04	.01													.52	
SANDY HOOK	.06	.04	.04	.05	.11	.12	.10	.06	.08	.04	.02	.04	.01												.76	
SPRINGFIELD	.06	.02	.01	.07	.06	.07	.06	.05	.06	.02	.01	.01	.01												.51	
TRENTON WB CITY	.08	.04	.04	.07	.12	.09	.06	.06	.03	.03	.02	.02	.01												.67	
WANAQUE RAYMOND DAM		.02	.04	.04	.06	.07	.10	.07	.07	.01															.48	
WATCHUNG	.07	.02	.03	.04	.08	.05	.04	.05	.07	.04	.03	.03													.55	
WESTFIELD	.04	.04	.05	.02	.09	.09	.04	.05	.08	.04	.05	.01													.60	
WOODCLIFF LAKE	.02	.02	.03	.04	.08	.08	.08	.06	.03	.08	.06														.58	

See reference notes following Station Index.

DAILY TEMPERATURES

Table 5

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ATLANTIC CITY WB	MAX MIN	63 54	56 53	60 54	62 59	62 58	66 61	65 49	58 46	64 56	66 53	57 42	57 44	60 45	52 40	58 45	54 39	63 47	59 44	62 52	66 50	60 46	54 47	56 46	54 43	53 40	55 39	62 45	46 39	48 37	49 34	58.2 46.9	
BELLEPLAIN	MAX MIN	67 49	60 50	62 60	70 58	78 63	77 63	68 51	62 35	69 60	75 63	67 31	61 40	58 29	57 30	60 28	59 35	62 37	60 36	66 33	73 60	60 33	57 34	55 33	53 40	52 40	57 25	63 49	61 30	45 38	53 30	62.2 39.5	
BELVIDERE	MAX MIN	60 46	60 45	50 37	67 50	66 59	78 64	71 50	61 34	66 37	66 60	64 37	55 33	56 45	51 35	56 32	52 31	60 43	62 30	58 29	69 58	59 37	45 35	51 40	53 36	50 35	52 26	59 44	50 31	41 33	42 24	57.7 39.9	
BOONTON	MAX MIN	69 37	65 41	54 36	60 37	68 55	67 52	77 63	65 33	65 35	67 38	55 39	55 35	58 30	57 37	52 32	57 30	54 32	60 26	66 35	69 35	71 35	54 30	48 36	51 37	56 31	51 25	54 29	60 35	45 34	38 22	59.2 35.3	
BRIDGETON	MAX MIN	64 50	60 49	59 44	69 57	71 61	74 48	68 38	62 41	70 60	69 39	66 36	60 47	51 37	54 36	56 33	61 40	62 32	67 40	70 62	65 39	57 38	53 42	53 41	51 40	55 31	60 32	50 25	42 37	45 29	60.1 42.7		
BURLINGTON	MAX MIN	67 46	65 48	67 42	69 49	72 56	77 60	69 52	65 36	67 39	69 59	68 39	67 34	66 44	58 38	57 45	58 45	63 43	65 31	63 40	73 53	63 48	49 43	56 44	55 41	52 42	58 28	61 47	60 34	44 36	46 29	62.3 43.1	
CANOE BROOK	MAX MIN	71 43	67 43	57 40	62 46	70 57	68 58	78 51	64 28	66 32	67 42	67 36	57 27	58 38	54 35	59 30	55 25	61 39	68 25	68 23	75 31	55 30	47 30	53 44	57 35	53 28	56 20	60 32	45 27	39 18	60.5 34.9		
CAPE MAY	MAX MIN	68 41	62 40	63 31	65 41	69 56	69 61	63 48	61 38	68 50	68 60	65 37	60 30	60 44	58 35	56 27	57 30	59 44	60 33	65 33	68 40	60 30	55 40	55 35	52 40	52 36	58 28	59 40	60 30	49 21	60.8		
CHARLOTTEBURG	MAX MIN	67 41	57 40	54 31	65 41	64 56	74 58	68 49	64 29	61 29	65 50	60 37	57 27	55 44	50 34	56 30	53 27	59 38	62 33	61 19	71 50	62 43	50 31	49 42	53 33	49 26	53 18	57 42	48 33	39 32	44 26	57.6 36.3	
CHATSWORTH	MAX MIN	64 45	62 45	64 50	71 60	79 53	80 65	70 50	70 28	68 33	73 55	56 38	61 27	60 44	53 42	58 27	59 26	64 44	68 26	66 28	76 57	62 32	52 30	56 39	54 40	57 22	61 43	58 25	44 37	50 23	62.5 38.9		
CLAYTON	MAX MIN	64 49	58 49	57 43	70 56	72 63	77 63	68 43	62 37	68 39	68 59	65 39	60 34	58 45	50 36	57 34	55 33	62 41	62 34	67 36	72 60	61 36	53 37	53 43	52 40	56 42	56 28	69 48	53 38	40 36	45 26	60.5 42.0	
ELIZABETH	MAX MIN	64 47	56 44	64 42	67 52	71 57	79 58	72 52	63 33	68 38	69 50	68 39	59 33	59 45	56 37	62 33	56 33	61 38	67 31	70 61	75 58	65 35	60 35	56 40	58 40	56 38	57 28	64 45	54 29	44 34	49 24	62.0 40.0	
FLEMINGTON	MAX MIN	70 45	55 45	51 37	72 50	68 56	78 69	70 50	64 29	65 32	67 58	66 37	58 30	52 44	57 35	57 27	62 30	64 33	59 31	75 23	70 53	60 33	47 30	54 40	55 36	52 40	54 36	61 22	54 30	43 33	48 21	59.9 37.3	
FREEHOLD	MAX MIN	67 48	55 47	57 44	70 56	78 55	78 62	70 51	66 37	66 39	71 59	67 37	59 37	52 46	59 37	56 34	61 40	65 34	65 34	75 60	65 37	51 44	54 39	55 40	51 31	56 40	60 31	52 44	40 36	48 26	60.9 41.9		
HAMMONTON	MAX MIN	64 48	67 49	62 44	72 61	72 62	82 69	66 49	66 36	64 43	69 54	68 35	64 31	62 44	56 39	58 36	60 33	65 43	59 43	66 38	66 39	62 42	58 44	59 45	56 44	56 33	58 26	64 37	61 33	49 28	49 26	62.8 40.9	
HIGHTSTOWN	MAX MIN	68 47	54 43	54 42	72 52	72 53	79 57	70 51	65 33	67 37	69 60	68 37	58 34	58 44	52 35	57 34	53 31	60 27	63 31	65 27	73 61	66 37	49 35	54 41	55 38	51 39	56 25	60 45	53 31	43 34	46 25	60.3 39.9	
INDIAN MILLS 2 W	MAX MIN	64 45	57 50	57 44	76 54	71 60	80 62	70 51	64 30	67 32	69 59	66 37	60 29	51 46	58 36	57 29	62 26	65 27	67 30	73 60	51 30	53 42	55 38	55 31	51 22	57 39	61 26	53 47	41 36	47 23	60.7 39.1		
JERSEY CITY	MAX MIN	60 48	50 44	60 45	60 56	65 58	77 58	64 50	57 44	61 44	65 47	54 40	55 43	57 42	52 38	52 40	59 46	58 42	59 36	70 51	54 43	50 42	50 41	51 41	50 38	59 42	44 34	42 38	44 32	44 31	58.2 43.2		
LAKEWOOD	MAX MIN	65 45	54 47	58 43	67 55	74 60	78 69	68 49	61 30	66 32	72 60	66 38	58 31	57 43	51 37	57 28	55 29	61 33	61 27	63 26	75 61	65 32	52 31	55 42	54 36	52 40	54 32	60 43	53 28	43 24	47 25	60.1 38.6	
LAMBERTVILLE	MAX MIN	66 47	55 44	53 38	72 52	67 58	79 61	70 51	65 32	65 36	66 56	57 39	58 32	60 45	53 35	58 30	57 30	63 39	67 30	63 28	73 60	60 33	48 34	53 38	56 38	53 32	51 25	61 47	50 30	43 35	48 23	59.7 39.3	
LAYTON 3 NW	MAX MIN	67 40	56 40	53 31	68 45	66 42	77 62	75 48	63 25	60 30	66 56	55 28	55 24	58 30	51 28	61 30	62 33	66 46	66 32	69 18	61 46	51 42	41 35	53 32	50 31	53 27	59 20	58 40	42 24	44 17	58.8 34.0		
LITTLE FALLS WATER CO	MAX MIN	71 45	66 42	53 36	64 48	65 57	72 58	83 52	68 33	66 36	66 56	61 41	57 33	59 45	58 38	54 35	59 31	56 42	61 34	66 27	73 47	68 35	72 41	58 34	56 41	53 38	56 31	53 25	55 37	45 33	38 23	60.5 38.9	
LONG BRANCH	MAX MIN	62 49	53 48	59 48	62 58	67 64	73 60	68 42	60 40	63 39	69 52	54 38	58 38	59 51	51 38	58 36	55 41	61 37	64 32	75 49	55 38	53 39	55 43	55 39	55 31	53 43	61 31	45 34	45 34	48 30	58.4 41.5		
LONG VALLEY	MAX MIN	66 41	67 44	63 35	60 43	67 58	76 48	65 29	64 31	63 42	65 35	66 28	56 32	51 33	52 28	59 28	62 36	68 28	65 23	74 32	53 30	45 31	48 34	57 35	55 30	53 22	60 26	43 29	37 26	59.2 34.3			
MIDLAND PARK	MAX MIN	42 40	40 35	35 45	45 55	58 50	50 30	32 48	39 30	45 38	34 29	40 34	45 38	34 29	40 34	29 34	40 34	28 34	24 34	36 36	32 32	32 38	36 36	29 29	23 33	28 33	28 28	20 20	35.9				
MILLVILLE AIRPORT	MAX MIN	67 51	58 46	63 46	71 58	75 63	74 62	66 42	65 37	69 39	67 50	54 35	60 34	61 43	51 35	57 33	57 32	62 36	64 29	68 34	73 44	59 37	51 39	54 43	54 40	52 31	57 27</						

DAILY TEMPERATURES

NEW JERSEY
NOVEMBER 1948

Table 5-Continued

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
RUTHERFORD	MAX	63	56	58	63	70	76	66	67	67	69	58	58	59	55	59	56	63	67	61	76	57	49	54	57	54	59	65	48	44	50	60.2	
	MIN	48	43	39	57	58	55	50	38	41	54	42	39	47	38	39	38	44	37	32	55	40	38	44	41	39	30	40	35	33	28	42.1	
SANDY HOOK	MAX	60	54	57	61	66	72	65	59	64	67	65	57	58	51	56	54	56	60	60	70	59	52	51	54	52	53	58	52	44	43	57.7	
	MIN	51	48	47	57	55	55	53	47	49	59	42	44	49	40	42	44	44	45	43	58	46	44	45	45	43	39	49	40	38	36	46.6	
SOMERVILLE	MAX	67	55	53	72	67	79	70	65	66	68	65	58	59	53	58	56	63	65	59	73	60	48	55	56	52	56	52	52	43	47	59.7	
	MIN	46	45	40	53	58	58	50	31	35	60	35	30	45	36	29	29	38	31	26	59	32	33	41	38	35	24	43	29	34	22	38.8	
SUSSEX	MAX	64	56	52	68	70	77	73	62	58	67	64	65	55	51	57	53	60	64	50	72	58	47	50	52	50	53	59	52	41	42	58.1	
	MIN	49	42	34	48	56	63	48	30	31	54	36	29	44	36	31	29	39	27	22	48	33	23	40	34	35	23	41	31	31	20	36.9	
TRENTON NO 2	MAX	66	54	58	72	68	78	69	63	66	68	55	59	59	52	57	56	62	62	66	73	55	48	53	55	52	55	60	45	39	47	59.1	
	MIN	50	46	41	57	57	62	47	38	41	51	39	38	45	37	37	36	44	39	31	49	40	38	42	40	37	30	42	35	32	28	41.6	
TRENTON WB CITY	MAX	66	53	58	72	69	77	70	63	66	68	54	58	58	50	56	55	62	62	67	71	54	49	53	54	51	55	60	46	39	46	58.7	
	MIN	49	46	44	58	58	64	49	42	44	52	41	40	46	39	38	40	44	42	35	49	41	40	44	42	40	34	46	37	35	32	43.7	
TUCKERTON 1 S	MAX	64	56	60	63	62	72	66	59	65	72	65	60	60	52	58	55	63	58	64	73	63	52	56	55	52	55	61	55	45	50	59.7	
	MIN	46	50	48	55	53	60	51	33	39	58	40	40	40	34	36	33	41	35	31	58	38	35	44	40	41	29	47	31	37	29	41.7	
WOODSTOWN 2 W	MAX	60	64	58	62	72	69	76	63	63	65	67	55	59	58	51	57	57	64	63	67	71	58	50	52	53	51	55	60	41	39	59.3	
	MIN	47	51	44	45	57	60	51	37	39	44	39	35	36	34	34	31	31	33	32	43	38	38	42	39	40	30	31	34	35	27	39.2	

STATION INDEX

NEW JERSEY
NOVEMBER 1948

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT.	LONG.	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
ATLANTIC CITY WB	0325	ATLANTIC	COASTAL	39 22	74 25	8	EST	MID	MID	75	75		U S WEATHER BUREAU	2 3 4 5
BASS RIVER STATE FOREST	0528	BURLINGTON	COASTAL	39 35	74 28		EST		6P		2		N J FORESTRY SERVICE	2 3 5
BELLEPLAIN	0690	CAPE MAY	COASTAL	39 16	74 52	49	EST	5P	5P	54	54		MRS ED C HOFFMAN	2 3 5
BELMAR	0721	MONMOUTH	COASTAL	40 10	74 02	19	EST		MID	7	7		CITY WATER DEPT	3
BELVIDERE	0729	WARREN	DELAWARE	40 50	75 05	289	EST	5P	5P	56	56		MISS C S HIXSON	2 3 5
BERLIN 1 MI W	0787	CAMDEN	MULLICA	39 48	74 56	70	EST		7A		7		SAMUEL H MC CULLEY	3
BOONTON	0907	MORRIS	PASSAIC	40 54	74 24	280	EST	8A		40	58		JERSEY CITY WTR WKS	2 3 5
BRIDGETON	1028	CUMBERLAND	DELAWARE	39 26	75 14	30	EST	6P	6P	60	65		BENNET K MATLACK	2 3 5
BRIDGETON NO 2	1033	CUMBERLAND	DELAWARE	39 30	75 14		EST		8A				SEABROOK FARMS	3
BROOKLAWN	1106	CAMDEN	DELAWARE	39 53	75 07	30	EST		4P	7	7		C D SCOTT	3
BURLINGTON	1211	BURLINGTON	DELAWARE	40 04	74 51	12	EST	6P	6P	36	62		PUBLIC SERVICE E&G CO	2 3 5
CANISTEAR RESERVOIR	1327	SUSSEX	SUSSEX	41 07	74 30	1040	EST		8A				DIVISION OF WATER	3
CANOE BROOK	1335	ESSEX	PASSAIC	40 45	74 21	180	EST	9A	9A	18	18	18	N J DEPT OF CONSERV	2 3 5 6
CANTON	1343	SALEM	DELAWARE	39 28	75 25	8	EST		9A		2		GERTRUDE S WILLIS	3
CAPE MAY	1351	CAPE MAY	COASTAL	38 56	74 57	17	EST	5P	5P	23	60		N W MAGNESITE CO	2 3 4 5
CEDAR GROVE	1472	ESSEX	PASSAIC	40 52	74 13	400	EST		8A				J A PLUNKETT	3
CHARLOTTEBURG	1582	PASSAIC	PASSAIC	41 02	74 26	760	EST	4P	4P	56	56		NEWARK WATER DEPT	2 3 4 5
CHATHAM	1590	MORRIS	PASSAIC	40 44	74 23	185	EST		8A	44	44		EDWARD P MOLITOR	3
CHATSORTH	1598	BURLINGTON	COASTAL	39 48	74 32	90	EST	5P	5P	8	8		A L STEVENSON	2 3 5
CLAYTON	1708	GLOUCESTER	MAURICE	39 39	75 06	120	EST	6P	6P	35	55		HARRY P CAMPBELL	2 3 5
CLINTON	1749	HUNTERDON	RARITAN	40 38	74 55	300	EST		6P		5		L W KLOCKNER	3
CULVERS LAKE	2130	SUSSEX	DELAWARE	41 10	74 47	760	EST		5P		47		L S DEPUE	3
DEEPWATER	2209	SALEM	DELAWARE	39 41	75 30		EST						DU PONT DE NEMOURS CO	3
ELIZABETH	2644	UNION	COASTAL	40 40	74 14	33	EST	5P	5P	69	69		UNION CO PARK COMM	2 3 5
ELIZABETHPORT	2652	UNION	PASSAIC	40 39	74 12	30	EST						SEWAGE TREATMENT PLT	3 4
ESSEX FIELDS	2773	ESSEX	PASSAIC	40 49	74 17	250	EST		8P		3		EDWARD T MICK	3
FLEMINGTON 1 MI NE	3029	HUNTERDON	RARITAN	40 30	74 52	134	EST	5P	5P	51	62		DONALD YOUNG	2 3 5
FORTESCUE	3102	CUMBERLAND	DELAWARE	39 14	75 10	5	EST		5P				F A RODENBAUGH	3
FREEHOLD	3181	MONMOUTH	RARITAN	40 15	74 17	194	EST	5P	5P	44	44		FRANK J MOREAU	2 3 4 5
GLASSBORO	3291	GLOUCESTER	DELAWARE	39 42	75 07		EST						PROF SANGREE	3 4
GREAT MEADOWS	3416	WARREN	RARITAN	40 52	74 55	510	EST						HENRY TOPOLESKI	3 4
GREENWOOD LAKE	3516	PASSAIC	PASSAIC	41 09	74 20	660	EST		7A				WATER SUPPLY COMM	3
HAMMONTON	3662	ATLANTIC	MULLICA	39 38	74 48	95	EST	5P	5P	16	42		J G WILSON	2 3 5
HIGHTSTOWN	3951	MERCER	RARITAN	40 16	74 31	100	EST	8P	8P	52	55		JAMES R PICKERING	2 3 5
HIGHTSTOWN PUMPING STA	3956	MERCER	RARITAN	40 17	74 32	75	EST						DEPT WATER & SEWERS	3 4
INDIAN MILLS 2 MI W	4229	BURLINGTON	MULLICA	39 48	74 45	100	EST	8P	8P	58	59		EDWARD ENTWISTLE	2 3 5
IRVINGTON	4260	ESSEX	COASTAL	40 43	74 15		EST						SEWAGE TREATMENT PLT	3 4
JERSEY CITY	4339	HUDSON	COASTAL	40 44	74 04	135	EST	MID	MID	50	50		JERSEY CITY WTR DEPT	2 3 5
LAKEHURST AIRPORT	4596	OCEAN	COASTAL	40 02	74 19	128	EST						U S NAVY	3 4
LAKEWOOD 1 MI ENE	4627	OCEAN	COASTAL	40 06	74 13	54	EST	6P	6P	44	44		GEORGE G WADDILL	2 3 5
LAMBERTVILLE	4635	HUNTERDON	DELAWARE	40 22	74 57	75	EST	6P	6P	61	61		GEORGE BAILEY	2 3 5
LAYTON 3 MI NW	4735	SUSSEX	DELAWARE	41 13	74 50	480	EST	6P	6P	47	47		A M DEPUE	2 3 5
LITTLE FALLS WATER CO	4887	PASSAIC	PASSAIC	40 53	74 14	157	EST	9A	9A	34	45		PASSAIC VALLEY WTR CO	2 3 5
LONG BRANCH	4987	MONMOUTH	COASTAL	40 18	74 00	34	EST	MID	MID	40	40		STORM WARNING DIS STA	2 3 4 5
LONG VALLEY	5003	MORRIS	RARITAN	40 48	74 46	660	EST	7A	7A	18	18		ARTHUR BACKMAN	2 3 5
LUMBERTON	5055	BURLINGTON	DELAWARE	39 58	74 48	25	EST						MARY ELLEN SERVAN	3 4
MACOPIN INTAKE	5071	PASSAIC	PASSAIC	41 01	74 24		EST		9A				HAROLD QUACKENBUSH	3
MANVILLE	5197	SOMERSET	RARITAN	40 33	74 34	50	EST		MID		3		R R STONE	3
MARLBORO	5244	MONMOUTH	COASTAL	40 20	74 14	120	EST						GEROW BRILL	3 4
MARLTON 1 MI W	5252	BURLINGTON	DELAWARE	39 54	74 55	90	EST		6P		7		DAVID GRISCOM	3
MAYS LANDING	5346	ATLANTIC	GREAT EGG HARBOR	39 27	74 44	50	EST		5P		4		ELMER EARLE	3
MIDLAND PARK	5503	BERGEN	PASSAIC	40 59	74 09	210	EST		9A		2		HARRY MITCHELL	2 3 5
MILLVILLE	5576	CUMBERLAND	MAURICE	39 24	75 03	60	EST		MID		8		L J GALLAHER	3 4
MILLVILLE AIRPORT	5581	CUMBERLAND	MAURICE	39 22	75 05	76	EST	MID	MID	2	2		CIVIL AERO ADM	2 3 4 5
MILTON	5597	MORRIS	PASSAIC	41 01	74 32		EST		7A				JERSEY CITY WTR WORKS	3 4
MOORESTOWN	5728	BURLINGTON	DELAWARE	39 58	74 57	62	EST	MID	7A	85	85		JAPANESE BEETLE LAB	2 3 5
MORRIS PLAINS 1 MI W	5769	MORRIS	PASSAIC	40 50	74 30	400	EST	4P	4P	3	7		JAMES C LONG	2 3 5
NEWARK WB AIRPORT	6026	ESSEX	COASTAL	40 42	74 10	11	EST	MID	MID	49	94		U S WEATHER BUREAU	2 3 4 5
NEW BRUNSWICK	6062	MIDDLESEX	RARITAN	40 29	74 27	99	EST	5P	5P	91	94		NEW JERSEY EXP STA	2 3 5
NEW MILFORD	6146	BERGEN	HACKENSACK	40 57	74 02	12	EST		MID		30		HACKENSACK WATER CO	3 4
NEWTON	6177	SUSSEX	DELAWARE	41 03	74 45	769	EST	8A	8A	65	65		C M WHEELER	2 3 5

STATION INDEX - Continued

NEW JERSEY
NOVEMBER 1948

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. O /	LONG. O /	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
PHILLIPSBURG	6974	WARREN	DELAWARE	40 41	75 12	182	EST	10P	10P	57	65		TOWN ENGINEER	2 3 5
PHILLIPSBURG BRIDGE	6979	WARREN	DELAWARE	40 42	75 12		EST		8A		9		JOINT TOLL BRDG COMM	3
PLAINFIELD	7079	UNION	RARITAN	40 37	74 25	120	EST	8P	8P	57	60		S K PEARSON	2 3 5
PLAINSBO	7095	MIDDLESEX	RARITAN	40 19	74 36	110	EST		6P		7		WALKER-GORDON LAB	3
PLEASANTVILLE	7131	ATLANTIC	COASTAL	39 25	74 31	8	EST	9A	9A	25	50	25	N J DEPT OF CONSERV	2 3 5 6
QUAKERTOWN	7372	HUNTERDON	DELAWARE	40 34	74 57	645	EST		ar				WILLIS W VAIL	3 4
RAHWAY	7393	UNION	RAHWAY	40 36	74 15	20	EST		MID		9		LOUIS FONTENELLI	3 4
RIDGEFIELD	7545	BERGEN	HACKENSACK	40 50	74 00	80	EST	MID	7P	31	31		GEORGE P KIRSTEN	2 3 5
RINGWOOD	7587	PASSAIC	PASSAIC	41 08	74 16	305	EST		10A		1		NO JERSEY WATER SUPP	3
RUNNEMEDE 1 MI W	7817	CAMDEN	DELAWARE	39 51	75 04	42	EST	9P	6P				HENRY D MOSHER	2 3 5
RUNYON	7825	MIDDLESEX	COASTAL	40 26	74 20	18	EST	6P	6P	24	25	25	N J DEPT OF CONSERV	2 3 5 6
RUTHERFORD	7833	BERGEN	PASSAIC	40 49	74 07	51	EST	8P	8P	4	4		HAROLD SCOTT	2 3 5
SANDY HOOK	7869	MONMOUTH	COASTAL	40 28	74 01	22	EST	7P	MID	50	50		U S COAST GUARD	2 3 4 5
SOMERVILLE	8194	SOMERSET	RARITAN	40 35	74 18	65	EST	6P	6P	62	65		W E HAVER	2 3 5
SPLIT ROCK POND	8402	MILTON	ROCKAWAY	40 58	74 28		EST		10A				JERSEY CITY D P W	3
SPRINGFIELD	8423	UNION	COASTAL	40 43	74 18		EST		MID				N J DEPT OF CONSERV	3 4
SUSSEX	8644	SUSSEX	HUDSON	41 13	74 36	450	EST	6P	6P	50	53		MARSHALL HUNT	2 3 5
SWEDESBO	8680	GLOUCESTER	DELAWARE	39 45	75 19	75	EST		6P		2		F F HURFF CO	3
SWEDESBO 5 MI NW	8685	GLOUCESTER	DELAWARE	39 47	75 24	10	EST		NOON		2		SUN OIL CO	3
TOMS RIVER	8816	OCEAN	COASTAL	39 57	74 14	33	EST		5P		27		ROBERT F SNYDER	3
TRENTON NO 2	8878	MERCER	DELAWARE	40 14	74 46	105	EST	MID	MID	18	18		E H RISTOW	2 3 5
TRENTON WB CITY	8883	MERCER	DELAWARE	40 13	74 46	56	EST	MID	MID	76	76		U S WEATHER BUREAU	2 3 4 5 7
TUCKERTON	8899	OCEAN	COASTAL	39 36	74 20	23	EST	6P	6P	49	54		WALTER J WARREN	3
VINELAND	9135	CUMBERLAND	MAURICE	39 29	75 01	110	EST		5P	58	68		ROBERT JONES	3
WANAQUE RAYMOND DAM	9187	PASSAIC	PASSAIC	41 02	74 18	320	EST		8A		2		WATER SUPPLY COMM	3 4
WATCHUNG	9271	UNION	PASSAIC	40 40	74 25								BONNIE BURN SAN'TRM	3 4
WESTFIELD	9455	UNION	RAHWAY	40 39	74 21	135	EST		9A		9		TOWN ENGINEER	3 4
WOODCLIFF LAKE	9832	BERGEN	HACKENSACK	41 01	74 03	103	EST		MID		30		HACKENSACK WATER CO	3 4
WOODSTOWN 2 MI NW	9910	SALEM	DELAWARE	39 40	75 20	16	EST	6A	6A	2	12		CHARLES CLARK	2 3 5

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late for inclusion in this issue.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Data in Tables 3, 5 and 6 are for the 24-hours ending at time of observation. See the Station Index for observation time.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, river stages in feet, and wind movement in miles.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with windshield.
- 6 No recording gage, precipitation is measured at 6-hourly intervals.
- b Adjusted to a full month.
- m One or more days of record missing; see Table 5 for detailed daily record.
- ss This entry in time of observation column in Station Index means sunset.
- r Station equipped with recording gage only. All amounts in Table 3 are from the non-recording gages, except for stations with this reference.
- x Daily precipitation totals in Table 3 are for the 24-hours ending at 1:30 A.M., E.S.T., of the following day.
- z Hourly amounts from the recording gage at the same site may be found in Table 4.
- T Trace, an amount too small to measure.

When hourly precipitation is accumulated over a period of 3 or more calendar days, with unknown hourly or daily distribution, the first and last days are shown in Table 4.

When hourly precipitation is missing for several days, only the first and last days are shown in Table 4.

Data in Table 4 were formerly published in the Hydrologic Bulletin for North Atlantic District. Amounts in this table are from recording gages. Traces are not shown.

Subscription Price: 15¢ per copy; \$1.50 a year. (Yearly subscription includes Annual Summary. Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, Federal Building, Albany 1, N.Y.)

W.R.P.C., Albany, N.Y. --- 2-2-49 ---1100

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U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

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CLIMATOLOGICAL DATA

NEW JERSEY

DECEMBER 1948

Volume LIII No. 12



ALBANY: 1949

NEW JERSEY - DECEMBER 1948

A. E. White, Section Director - Trenton

GENERAL SUMMARY

The first half of the month was mild averaging about 7° warmer than normal. The latter half was mostly colder than normal, though the last three days were mild. Warmest days were the 5th, 6th, 7th, 13th and 30th, and most stations had readings of 60° or higher on one of these days. Zero or lower was recorded at many stations during the fourth week of the month and at a few stations on several mornings. The 27th was the coldest morning, but at southern stations, as a rule, it did not reach zero, while in north Jersey, readings from -10° to -15° were registered at several places.

Precipitation was almost twice the normal amount and the greatest for any December since 1902. Rains were frequent. The first snow of consequence occurred on the 15th, but it did not extend to the southern counties. At that time, there was rain and sleet in the South and some sleet with the snow in central and north Jersey. On the 19th, the merging of a coastal storm with a low pressure area moving from the west produced a heavy snowfall over about all of New Jersey except the southeast coastal section. Snow began on Sunday morning, the 19th, and continued for approximately 20 hours. The amounts were greatest in the central and northeast parts of the State, many stations recording from 12 to 15 inches. On the eastern side of the State, the falls were not nearly as great as in the storm of December 26, 1947, but in the vicinity of Trenton, the snowfall was the greatest of record for December. Another unusual feature was the rains of the last three days of the month, in connection with general rains covering the entire eastern seaboard. This storm began on the morning of the 29th and continued until the end of the month causing some freezing rain and sleet on the 31st and turning to snow in north Jersey. Total precipitation exceeded 4.00 inches in parts of north Jersey. As a result of the heavy rains in the Delaware water-shed, the Delaware River overflowed its banks in places and rose to flood stage at Trenton for the first time since May, 1942.

TEMPERATURE

The monthly mean temperature of the State, as computed from observations of 45 stations, was 35.5°, which was 1.9° above normal. The highest temperature was 68° at two stations on the 5th, and the lowest, -16°, at Runyon on the 27th. The highest monthly mean temperature was 42.5° at Cape May, and the lowest, 30.1° at Layton.

The temperature departure from the normal for the year, 1948, to date, for the State is 0.4°.

PRECIPITATION

The mean total precipitation of the State, as computed from observations of 45 stations, was 6.43 inches, which was 2.90 inches above normal. The average total snowfall at 39 stations was 13.7 inches, which was 8.4 inches above normal. The greatest monthly precipitation was 8.32 inches at Hammonton, and the least, 4.37 inches at Deepwater. The greatest amount of precipitation in any 24 consecutive hours was 3.91 inches at Hammonton on the 30th.

The average for the Highlands was 6.59 inches; for the Red Sandstone Plain 6.45 inches; for the Southern Interior 6.15 inches; and for the Sea Coast 6.22 inches.

The precipitation accumulated departure from the normal for the year 1948, to date, by sections, is: The Highlands, 0.65 inches; Red Sandstone Plain, 3.97 inches; Southern Interior, 7.85 inches; Sea Coast, 10.36 inches.

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ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U.S. Weather Bureau, Washington 25, D.C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

NEW JERSEY
DECEMBER 1948

Station	Sea level pressure extremes—inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	Degree days 65° base
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 a. E. S. T.	Percent of possible	
ATLANTIC CITY WB	30.56	26	29.31	18	16.7	46	N	19	76	77	69	72	57	749
LONG BRANCH	30.56	26	29.18	31	13.5	32	W	31	76	76	70	68	45	867
NEWARK WB AIRPORT	30.54	26	29.23	31					77	78	62	69		907
TRENTON WB CITY	30.57	26	29.27	31	8.8	27	NW	31		75			41	866

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1885	35.3	60	6	3.15			1908	34.0	72	1	3.63	7.8	11	1931	39.6	72	7	2.27	0.4	9
1886	29.1	60	2	3.51			1909	29.8	60	-15	4.45	12.6	5	1932	36.0	69	6	3.08	10.1	13
1887	33.7	62	6	5.29		10	1910	26.5	58	-14	2.79	11.3	9	1933	31.8	72	-18	3.19	7.4	12
1888	34.9	65	5	3.69		8	1911	38.4	70	2	3.77	5.6	11	1934	33.2	69	3	2.90	0.1	8
1889	41.5	71	8	1.62		9	1912	36.9	68	1	4.73	11.0	9	1935	28.9	60	-14	1.67	9.7	9
1890	30.9	56	3	3.89		8	1913	37.7	63	-11	3.03	0.8	7	1936	37.5	67	3	6.29	0.6	12
1891	40.9	71	9	4.25		8	1914	31.1	66	9	5.86	2.4	12	1937	33.2	70	0	1.75	0.6	7
1892	30.4	68	1	1.87		6	1915	31.9	64	3	4.82	13.6	8	1938	34.8	67	1	2.80	1.4	10
1893	34.9	70	5	3.39		11	1916	32.3	70	8	4.61	12.6	11	1939	35.2	69	1	1.54	3.9	8
1894	34.8	66	3	4.36		9	1917	24.8	54	-21	3.18	11.5	8	1940	37.0	67	4	3.00	3.1	10
1895	37.2	70	3	2.61	0.4	6	1918	37.5	66	9	3.92	0.5	10	1941	37.2	70	0	3.70	0.4	7
1896	31.3	64	-15	1.48	10.7	4	1919	28.8	67	-18	2.98	6.8	12	1942	30.0	67	-17	4.55	7.0	11
1897	35.1	69	3	4.90	3.4	11	1920	36.4	69	7	5.10	1.0	8	1943	31.1	62	-10	1.41	0.1	3
1898	33.3	66	2	3.53	2.0	9	1921	32.3	64	4	2.37	6.2	9	1944	30.7	58	-14	3.02	5.7	9
1899	35.5	69	1	2.11	0.5	7	1922	32.5	65	8	3.86	7.3	12	1945	29.0	64	-11	5.03	14.5	11
1900	34.4	64	2	2.59	4.1	6	1923	40.8	69	9	4.14	2.6	12	1946	36.5	74	2	2.38	2.0	7
1901	32.6	68	8	7.30	2.1	11	1924	32.8	58	4	2.58	0.4	8	1947	32.0	65	4	2.85	18.6	8
1902	31.7	62	-11	7.23	9.1	13	1925	34.0	61	5	2.84	0.6	10	1948	35.5	68	-16	6.43	1.1	11
1903	28.6	56	-13	4.08	9.2	9	1926	28.4	52	7	3.44	8.2	11							
1904	27.0	60	-15	3.19	21.1	12	1927	35.3	70	2	4.54	T	12	Period	33.6	74	-21	3.53	5.3	9
1905	36.3	61	5	3.65	1.5	7	1928	36.3	63	3	1.64	2.7	8							
1906	33.0	70	5	3.99	1.4	13	1929	33.8	68	2	3.01	4.1	10							
1907	36.6	70	3	4.91	5.9	9	1930	33.0	60	5	2.67	5.2	8							

CLIMATOLOGICAL DATA

NEW JERSEY
DECEMBER 1948

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
ATLANTIC CITY WB	40.8	4.4	64	13	14	26		13	6.07	2.13	1.40	30	0.6	T	20+	10	7	3
BELLEPLAIN	40.5m	5.1	66	14	1	27		18	7.48	3.94	2.35	4	1.5			11	9	2
BELVIDERE	33.2	2.2	60	4	3	27		25	6.73	2.99	2.28	30	13.0			10	6	2
BOONTON	32.2	1.9	60	5	-	27		29	6.69	3.41	2.96	31				10	5	2
BRIDGETON	37.8	1.8	61	13	8	27		21	6.71	3.25	1.77	4	4.5	4.0	19+	8	6	3
BURLINGTON	38.2	3.2	64	12	6	27		23	6.09	2.30	2.28	30	7.7	8.0	19	9	7	1
CANOE BROOK	31.5m	0.9	59	6+	-12	27		30	6.88	3.82	3.03	31				9	5	2
CAPE MAY	42.5m	5.4	62	13				11										
CHARLOTTEBURG	32.5	2.1	57	4+	-11	27		24	7.36	3.45	2.63	30	15.9	12.0	20+	12	5	2
CHATSWORTH	37.0		62	13	-	27		23	4.96				7.0			11		
CLAYTON	37.2	2.5	60	13	5	27		21	6.24	2.71	1.65	30	7.5	8.0	19	12	8	1
ELIZABETH	36.2	2.5	61	13	-	27		24	7.05	3.37	2.14	31	23.5	14.0	20	13	8	3
FLEMINGTON	32.5	0.3	61	4	-14	27		26	6.43	2.95	2.66	30	17.0	14.0	20	13	7	1
FREEHOLD	35.7	1.6	59	13	-	27		22	6.27	2.75	1.50	19				13	6	3
HAMMONTON			68	6				9	8.32	4.96	3.91	30	6.5	6.0	19	9	4	3
HIGHTSTOWN	34.8	1.6	60	7	-	27		23	6.17	2.88	1.49	20	15.7	14.0	20	10	6	3
INDIAN MILLS 2 W	36.3	2.0	61	13	-	27		24	6.04	2.26	1.53	30	8.4	8.0	19	13	6	3
JERSEY CITY	35.3	0.6	55	4+	5	27		20	5.69	2.25	1.48	31				13	6	2
LAKEWOOD	35.5	1.2	60	13	-	27		24	5.58	1.90			10.0	10.0	19	11		
LAMBERTVILLE	34.5	1.3	63	4	-	27		24	6.42	2.88	2.42	30	11.0	10.0	19	14	7	1
LAYTON 3 NW	30.1	1.9	60	4	-14	27		29	6.23	3.01	2.43	30	11.4	12.0	20+	10	5	2
LITTLE FALLS WATER CO	35.1	2.6	68	5	-	27		24	6.48	2.81	2.78	31	19.7	14.0	20	11	5	2
LONG BRANCH	36.9	2.5	59	13	5	27		20	6.49	2.86	1.89	19	14.2	13.0	20	13	6	3
LONG VALLEY	31.9	2.1	67	6	-13	27		28	7.00	3.76	2.50	30	15.0			7	5	2
MIDLAND PARK					-	27		29	5.63		2.33	30	16.6	14.0	20	9	5	1
MILLVILLE AIRPORT	37.2		62	13	4	27		20	5.87		1.71	30	0.8	1.0	19+	11	6	2
MOORESTOWN	36.3	2.5	60	5+	9	27		22	5.14	1.71	1.69	31	8.4	8.0	20	10	5	1
MORRIS PLAINS	34.0		59	4	-	27		24	7.52		2.60	30	16.5	10.0	20	11	7	2
NEWARK WB AIRPORT	35.9	2.5	59	13	3	27		20	5.84	2.07	1.77	30	20.7	11.0	19	12	6	3
NEW BRUNSWICK	35.4	2.0	59	7+	-	27		24	6.14	2.71	1.42	31	23.1	14.0	20	12	8	2
NEWTON	30.3	0.1	56	5+	-10	27		27	6.42	3.08	2.30	31	13.0	11.0	20	9	4	2
PATERSON	36.3	3.0	59	14	5	27		22	7.39	3.64	3.24	31	22.5	18.0	20	12	5	3
PEMBERTON 1 E	36.2	0.8	61	7+	-	27		22	5.98	3.52	1.42	30	9.0	8.0	19	12	7	2
PHILLIPSBURG	34.2	2.6	60	5	2	27		25	5.64	2.14	1.95	30	14.3	12.0	20	11	7	1
PLAINFIELD	35.7	2.7	60	13	-	27		24	7.59	3.98	2.35	30	24.5	16.0	19	12	7	3
PLEASANTVILLE	36.9m	1.9	62	14	-	27		19	5.76	1.99	1.98	4				8	4	2
RIDGEFIELD	35.2	3.3	58	13	3	27		20	7.81	4.63	2.84	31	25.0	16.0	20	8	7	2
RUNNEMEDE	36.3		62	7+	4	27		24	5.79		2.09	30	10.0	9.0	19	11	5	2
RUNYON	32.5m	1.1	57	30	-16	27		26	6.85	3.74						10		
RUTHERFORD	36.5		59	13	5	26		20	6.72		1.69	31	25.7	15.0	19	12	6	3
SANDY HOOK	38.4	3.2	55	7	12	26+		16	5.79	1.75	1.33	19	14.2	12.0	19+	12	6	3
SOMERVILLE	33.5	0.9	61	4	-	27		24	6.34	2.84	2.23	30	14.0	8.0	21+	13	7	2
SUSSEX	32.2	2.2	59	4	-	27		25	7.10	3.82	3.00	30	17.0	13.0	20	11	5	2
TRENTON NO 2	35.9	2.0	60	4	7	27		20	7.32	4.29	3.01	30	16.5	16.0	19	13	8	2
TRENTON WB CITY	37.0	2.6	59	6+	10	27		18	6.08	2.73	2.59	30	12.9	10.0	19	13	7	2
WOODSTOWN 2 NW	37.6		62	14	8	27		21	5.26				6.0	6.0	20	13		
STATE	35.5	1.9							6.43	2.90								

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SEPTEMBER, 1948: Total precipitation for Rutherford should be 0.74.

DAILY PRECIPITATION

NEW JERSEY
DECEMBER 1948

Table 3

Station		Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ATLANTIC CITY WB	z			.92	1.00		.04			T	T		T			.83	.44	.08		1.04	T						T				.03	1.40	.29	6.07	
BELLEPLAIN				.35	2.35		.06									.75	.45	.25		.90	.27										.10	.93	1.07	7.48	
BELMAR				.22	.35	T	.02			T			.02	T		.86	.58	.01		2.43	.02						T				.05	1.09	.90	6.55	
BELVIDERE							.16						.11	.07		.35	.68			.80	.23										1.10	2.28	.95	6.73	
BERLIN 1 W				.10	1.43												1.00	.42			.82										.35	2.00	6.12		
BOONTON					.01			.10						.09			.68	.38		T	.71							.03			.07	1.66	2.96	6.69	
BRIDGETON				.21	1.77		T									.98	.59			1.08											.13	1.60	.35	6.71	
BRIDGETON NO 2					1.70	.25								.10		.02	.98	.30		.11						.15					.65	.66	1.48	5.88	
BROOKLAWN				.10	.74											.32	.70	.10		.78	T										.62	1.21	.56	5.13	
BURLINGTON					.68		.04									.38	.49	.10		.77	T											.70	2.28	.75	6.09
CANISTEAR RESERVOIR							.10						.08	.02		.20	.40	.08		.68	.02	.01					.01				.68	2.88	1.96	7.02	
CANOE BROOK					.09		.10						.08			.84	.34			T	1.38	T						T			.08	.94	3.03	6.89	
CANTON			*	2.50		.63	.03						.07			.30	.81	.11		.19	.01							T			.08	1.24	.84	6.81	
CAPE MAY	z		*	1.32												.56	.66	.06		.79															
CEDAR GROVE					.10			.20						.07			.65	.38			.04	.83									.06	.80	1.70	4.83	
CHARLOTTEBURG	z						.10						.12			.24	.66	.11		.81	.22	.03					.13				.73	2.63	1.78	7.36	
CHATHAM					.17			.15					.08				.59	.36		T	1.05							.02			.10	.95	3.10	6.57	
CHATSORTH				.05	.11		.05						.06	T		*	1.32			T	1.12										*	*	2.25	4.98	
CLAYTON				.25	.99		.05						.12	.06		.71	.45	.06		.92	T						T				.45	1.65	.53	6.24	
CLINTON					.10		.06						.10	.03		.68	.36	.04		1.08							T				.54	2.40	.74	6.13	
CULVERS LAKE							.16						T	.10		.34	.61	.04		.62	.08										.91	2.70	.88	6.44	
DEEPWATER		.01	.28	.12												.92	.29			.64									.23	1.60	.28		4.37		
ELIZABETH				.03	.26		.09						T	.09		.50	.64	.08		1.09	.56	T					.01				.42	1.14	2.14	7.05	
ELIZABETHPORT				.06	.15		.09						.07			.76	.58	.02		1.04	.02										.38	1.65	1.10	5.92	
ESSEX FIELDS	r				.15			.13					.90			*	.10			.25	1.95			.25					.18		.59	1.00	2.42	7.92	
FLEMINGTON				.05	.27		.06						.05	.07		.61	.45	.05		.74	.14							T			.57	2.66	.71	6.43	
FORTESCUE				.21	1.03		.04				T		T			.70	.51	.10		.87	.07										.04	1.47	.47	5.51	
FREEHOLD	z			.06	.50		.08		.01				.07			.78	.51	.02		1.50	.06										.20	1.25	1.23	6.27	
GLASSBORO	r			*	1.50											.88	.39														*	*			
GREAT MEADOWS	r						.28						.12			.66	.47	.02		.47	.04										*	*	4.38	6.42	
GREENWOOD LAKE								.14						.12			.63	.27			.70											1.45	3.45	6.76	
HAMMONT			*	1.84			.08			T						*	*	1.79		.60	T						T					3.91	1.0	8.32	
HIGHTSTOWN			.01	.74		.02							.03			.50	.67	T			1.49	T					T				.21	1.27	1.23	6.17	
HIGHTSTOWN PUMPING STA	r			.26	.49								.04			.75	.35			.68															
INDIAN MILLS 2 W			.05	1.19		.04			T		T		.02	.01		.60	.57	.06		*	1.17						T				.08	1.53	.72	8.04	
IRVINGTON	r		.06	.14		.12							.04			.71	.63			1.17	.03						.06				.53	1.98	1.06	6.53	
JERSEY CITY			.03	.24		.09							.07	.01		.62	.42	.02		.80	.04	T					T				.40	1.47	1.48	5.69	
LAKEHURST AIRPORT	r		.26	.15		.01			T	T			.01	.01		.91	.08	.01		.71	T						T				.06	2.73	.46	5.40	
LAKEWOOD				.55		.05			T				.02			*	*	1.43		*	1.40										*	*	2.13	5.58	
LANBERTVILLE			.03	.40		.06							.07	.03	T	.94	.25	.03		.82	.14	T					.02				.45	2.42	.76	6.42	
LAYTON 3 NW	z						.18						.14	.17		.18	.78			.54	.24	T									.57	2.43	1.00	6.23	
LITTLE FALLS WATER CO	z			.04			.09						.07			.80	.26			.21	.90			.02			T	T			.06	1.25	2.78	6.48	
LONG BRANCH	z		.24	.33		.02				T	T		.05	.01		.81	.63	.01		1.89	.01										.11	1.25	1.10	6.49	
LONG VALLEY							.10							.18			.40	.62			.80											2.50	2.40	7.00	
LUMBERTON	r		.39	.47												.81	.38			.77											.18	2.28	.14	5.42	
MACOPIN INTAKE								.01						.11			.75	.15		.15	.75		.01								.09	2.22	3.22	7.46	
MANVILLE			.05	.35		.03							T			.60	.15	.02		1.70	T										.62	2.50	.73	6.75	
MARLBORO	r		.18	.35		.02							.01	.04		.88	.39			*	.67										.19	1.42	.78	4.89	
MARLTON 1 W			.05	.84		.03							.02	.06		.40	.88			.90	.10										.16	1.80	.64	5.87	
MIDLAND PARK			.01			.14							.01			.51	.18			.90							.01				.66	2.33	.89	5.63	
MILLVILLE	z		.75	1.07									.02			.92	.44	.02		1.55											.12	2.08	.06	7.03	
MILLVILLE AIRPORT			.85	.95		.04				T	T		.07	T		1.04	.40	.02		.64	T						T				.11	1.71	.04	5.87	
MILTON							.13						.19			.66	.35			.10	1.15			.05											

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HOURLY PRECIPITATION

NEW JERSEY

DECEMBER 1948

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
IRVINGTON												.01	.01	.03	.04	.10	.10	.15	.09	.08	.02		.01	.06	.01	.71
LAKEHURST AIRPORT											.04	.05	.02	.07	.05	.06	.07	.04	.05	.08	.07	.09	.06	.07	.09	.91
LONG BRANCH									.02	.06	.07		.09	.06	.04	.05	.05	.04	.08	.06	.02	.01	.06	.03	.81	
LUMBERTON			.01	.01								.03	.06	.03	.14	.10	.09	.06	.05	.04	.04	.05	.04	.06	.81	
MARLBORO													.11	.09	.08	.12	.05	.08	.07	.04	.04	.04	.12	.04	.88	
MILLVILLE							.02	.04		.08	.04	.04	.14	.10	.10	.06	.10	.08	.08	.04					.92	
MILLVILLE AIRPORT 6									*	*	*	*	*	.44	*	*	*	*	.58	*	*	*	*	*		
NEWARK WB AIRPORT											.01	.03	.03	.09		.09	.10	.09	.08	.15					.67	
NEW MILFORD		.02	.05	.10	.08	.11	.15	.12	.03	.02	.02	.01	.01	.01	.01							.01	.01	.05	1.03	
QUAKERTOWN									.06	.06	.08	.11	.08	.05	.10	.14	.10	.10	.06	.02			.01	.01	.71	
RAHWAY											.05	.03	.04	.06	.09	.08	.12	.08	.12	.01		.01	.01	.01	.86	
SANDY HOOK										.02	.03	.05	.09	.08	.07	.06	.06	.10	.11	.05	.03	.03	.04	.04	.51	
SPRINGFIELD											.01	.02	.04	.04	.07	.05	.08	.07	.05	.05		.01	.02	.01	.90	
TRENTON WB CITY									.02	.07	.07	.07	.07	.07	.08	.09	.10	.12	.10	.03					.62	
WANAQUE RAYMOND DAM													.04	.06		.06	.07	.10	.17	.07	.02	.01	.01	.01	.65	
WATCHUNG										.01	.04	.06	.07	.07	.06	.07	.09	.08	.06	.04					.73	
WESTFIELD											.01	.06	.05	.07	.08	.12	.11	.08	.09	.02	.01	.01	.02	*		
WOODCLIFF LAKE							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
-16th-																										
ATLANTIC CITY WB		.02			.02	.02	.01	.01		.01	.02	.06	.13	.03	.03	.02	.01	.01	.02		.01		.01	.01	.44	
CAPE MAY									.01	.04	.15	.13	.03	.02	.01	.01	.01								.42	
ELIZABETHPORT		.02	.02	.01	.01	.01	.01	.05	.02		.03	.01	.12	.04	.04			.04	.01		.01	.01			.58	
FREEHOLD				.02	.03				.01		.03	.01	.12	.04	.04			.04	.05	.01					.40	
GLASSBORO		.01				.01				.01	.09	.04	.08		.09	.01	.04	.01	.01	.01	.01			.01	.39	
GREAT MEADOWS		.01					.01				.01	.11	.20	.02	.02	.01	.01	.02	.01	.01	.01		.01	.01	.47	
HIGHTSTOWN PUMPING STATION		.04	.02	.02	.02	.02	.02	.01	.01		.01		.18	.04	.01			.03	.01	.01	.01				.35	
IRVINGTON		.02	.02	.02	.01	.01	.02	.04	.03	.01		.16	.18	.04	.01										.63	
LAKEHURST AIRPORT		.03	.01	.01		.01						.02	.02												.08	
LONG BRANCH		.01	.01	.01		.01	.02	.01	.04	.02	.03	.02	.01	.10	.09	.03	.01	.05	.09	.03	.01		.01	.02	.63	
LUMBERTON		.05	.02	.04	.02		.01			.01		.06	.08	.02	.01		.01	.02	.02	.01		.01	.01		.38	
MARLBORO		.02		.02		.01	.01			.01		.01	.10	.07		.01	.02	.05	.02	.01					.39	
MILLVILLE					.02		.01			.04	.02	.11	.09	.05	.07			.04							.44	
MILLVILLE AIRPORT 6	*	.03	*	*	*	*		.01	*	*	*	*	.27	*	*	*	*	.10	*	*	*	*	*	*		
NEWARK WB AIRPORT				.01			.02	.02			.05	.13	.09					.04	.01	.01			.01		.39	
NEW MILFORD							.01		.01	.01	.02	.02	.06	.01	.01	*	*	*	*	*	.06				.20	
QUAKERTOWN									.01		.02	.06	.02				.02	.02	.01	.01	.01	.01			.18	
RAHWAY		.02	.03			.01	.01	.07	.01	.01		.13	.06	.04			.02	.02	.01	.01	.01	.01			.45	
SANDY HOOK		.02	.01	.02	.01	.01			.01		.13	.06	.14	.07	.03	.01	.01	.03	.01	.05		.01	.01		.45	
SPRINGFIELD		.01				.01		.02	.03	.03	.01	.06	.16	.04			.01	.01	.01				.01	.01	.41	
TRENTON WB CITY			.01			.01						.06	.09	.01			.01	.01				.01	.01		.22	
WANAQUE RAYMOND DAM		.01	.01							.04	.03	.05	.04	.01			.01	.03	.02		.01		.01	.01	.28	
WATCHUNG					.01	.01	.01	.01	.02	.02	.02	.15	.08	.03			.01	.01	.01		.01				.38	
WESTFIELD		.02			.01	.01	.01	.02	.03	.03	.04	.09	.07	.01	.05		.01	.04	.01		.01		.01		.45	
WOODCLIFF LAKE	*	*	*	*	*	*	*	*	.90	.01	.01	.01	.03	.04		.01	.01	.03	.01	.01					1.07	
-17th-																										
ATLANTIC CITY WB		.05	.02		.01																				.08	
CAPE MAY		.02	.03																						.05	
ELIZABETHPORT			.01	.01																					.02	
GREAT MEADOWS		.01	.01																						.02	
LAKEHURST AIRPORT																									.01	
LONG BRANCH			.01																						.01	
MILLVILLE		.02																							.02	
MILLVILLE AIRPORT 6	*	.02	*	*	*	*	*	.01																		
NEWARK WB AIRPORT		.01	.01																						.02	
NEW MILFORD			.01																						.01	
RAHWAY			.01																						.01	
SANDY HOOK				.01																					.01	
SPRINGFIELD		.01																							.01	
TRENTON WB CITY			.01																						.01	
WANAQUE RAYMOND DAM		.01																							.01	
WATCHUNG			.01		.01																				.02	
-19th-																										
ATLANTIC CITY WB							.01	.05	.04	.05	.10	.06	.12	.15	.18	.09	.06	.01	.03	.03	.02	.02	.02		1.04	
CAPE MAY								.03	.11	.11	.07	.10	.07	.15	.11	.04	.01								.80	
ELIZABETHPORT								.03	.06	.09	.11	.08	.10	.06	.08	.09	.12	.09	.03	.02	.01	.02			1.04	
FREEHOLD	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.10		1.10	
GREAT MEADOWS							.01	.01	.03	.06	.02	.06	.08	.05	.05	.02	.02	.01	.02	.01	.01	.01			.47	
HIGHTSTOWN PUMPING STATION							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		.68	.68	
IRVINGTON							.02	.06	.07	.10	.13	.10	.12	.08	.09	.09	.12	.10	.05	.02	.01	.01			1.17	
LAKEHURST AIRPORT							.03	.02	.01	.04	.07	.07	.04	.06	.03	.03	.12	.14	.03	.01	.01				.71	
LONG BRANCH					.01		.03	.03	.07	.10	.09	.08	.09	.13	.12	.15	.17	.18	.18	.17	.12	.09	.04	.04		

Table 4-Continued

HOURLY PRECIPITATION

NEW JERSEY

DECEMBER 1948

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
	-25th-																										
CHARLOTTEBURG														*	*			*			.13				.13		
IRVINGTON																	.03	.03	*						.06		
NEWARK WB AIRPORT																		.04							.04		
SANDY HOOK																									.02		
TRENTON WB CITY																				.02					.01		
	-29th-																										
ATLANTIC CITY WB								.01	.01	.01															.03		
CHARLOTTEBURG																											
ELIZABETHPORT								.03	.03	.03	.03	.05		.07	.05	.02	.02		.02				.01	.01	.01		
FREEHOLD						.01	.01	.01	.01	.03	.02	.01		.01	.01	.02	.01	.02		.01					.21		
GREAT MEADOWS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
IRVINGTON								.02	.03	.05	.03	.04		.11	.07	.04	.02		.01	.01	.02	*	*	*	.53		
LAKEHURST AIRPORT								.01	.01					.01	.01			.01	.01						.06		
LONG BRANCH								.02	.01	.01	.02			.01	.01			.01	.01	.01					.11		
LUMBERTON						.02	.02	.03	.02	.04								.01	.01	.01		.01	.01		.18		
MARLBORO						.01	.01	.02	.02	.01	.01	.01		.01		.03	.02		.02	.01		.01	.01		.19		
MILLVILLE								.03	.08	.01									.02	.01					.12		
MILLVILLE AIRPORT 6		*	*	*	*	*	*	.06	*	*	*	*	*	*	.05												
NEWARK WB AIRPORT								.04	.03	.04	.03	.06		.09	.06	.03	.01		.01	.01		.02	.01	.02	.46		
NEW MILFORD								.01	.03	.05	.04	.06		.10	.08	.04	.01	.01	.01	.02		.01	.04	.03	.54		
QUAKERTOWN									.22	.02	.02	.06		.08	.06	.02	.04	.04	.02	.02		.10	.06	.04	.80		
RAHWAY								.08	.03	.01	.06	.03		.07	.01	.01	.31								.31		
SANDY HOOK								.01	.02		.02	.01		.01		.02	.02	.01		.01					.13		
SPRINGFIELD								.05	.04	.03	.06	.08		.10	.07	.04	.01		.01	.01	.01	.01	.01	.06	.02	.04	.64
TRENTON WB CITY						.01	.03	.05	.06	.04	.04	.01		.01	.01		.01	.01				.01	.01	.05	.04	.38	
WANAQUE RAYMOND DAM				.01		.01		.01	.02	.04	.07	.07		.12	.12	.12	.03	.02	.02	.02	.03	.01	.06	.03	.07	.88	
WATCEUNG								.04	.03	.05	.04	.08		.11	.07	.04	.01		.01		.01	.09	.02	.05	.66		
WESTFIELD								.07	.04		.02	.06	.33	.10	.05	.03		.01	.01		.01	.05	.02	.01	.50		
WOODCLIFF LAKE								.04	.04	.04		.04		.08	.09	.05	.02		.01	.02	.02	.01	.02	.01	.02	.47	
	-30th-																										
ATLANTIC CITY WB										.06	.01	.19		.15	.06	.01	.04	.07	.08	.14	.13	.19	.06	.06	.15	1.40	
CAPE MAY								.01	.05	.10	.13	.06		.02	.06	.10	.09	.14	.14	.11	.08	.07	.07	.07	.06	1.36	
ELIZABETHPORT	.01		.01				.02	.11	.15	.10	.04	.08		.18	.06	.04	.05	.06	.09	.10	.13	.13	.15	.06	.08	1.65	
FREEHOLD					.01	.03	.02	.02	.10	.13	.13	.09		.24	.03	.04	.06	.05	.09	.10	.16	.11	.10	.11	.11	1.73	
IRVINGTON	.01	.02	.01				.03	.16	.14	.12	.07	.11		.30	.07	.05	.05	.08	.10	.09	.14	.13	.13	.08	.09	1.98	
LAKEHURST AIRPORT								.13	1.20	.50	.07	.09		.04			.04	.07	.10	.11	.09	.10	.08	.11	2.73		
LONG BRANCH								.01	.08	.13	.07	.07		.09	.09	.05	.03	.03	.05	.07	.09	.14	.14	.03	.11	1.28	
LUMBERTON	.02		.01		.03	.09	.06	.09	.16	.30	.31	.20		.07	.05	.09	.08	.09	.06	.13	.15	.08	.08	.04	.09	2.28	
MARLBORO	.01						.02	.03	.08	.11	.06	.08		.21	.07	.03	.03	.05	.08	.09	.12	.11	.08	.07	.09	1.42	
MILLVILLE						.03		.08	.12	.34	.32	.20		.04	.05	.09	.19	.02	.09	.07	.14	.10	.10	.04	.06	2.08	
MILLVILLE AIRPORT 6		*	*	*	*	*	*	.06	*	*	*	*	*	.80	*	*	*	*	*	.60	*	*	*	*	*		
NEWARK WB AIRPORT	.01	.01		.01			.01	.09	.19	.13	.07	.08		.23	.06	.04	.04	.06	.10	.10	.11	.13	.14	.07	.09	1.77	
NEW MILFORD	.02	.01	.01		.01		.08	.14	.18	.17	.10	.12		.18	.15	.05	.05	.05	.06	.11	.07	.08	.13	.09	.05	1.83	
QUAKERTOWN	.04	.02	.06		.14	.18	.08	.28	.06	.08	.10	.12		.12	.10	.06	.10		.06	.04	.08	.18	.08	.10	.06	2.34	
RAHWAY			.01	.02	.01	.01	.10	.12	.10	.05	.08	.23		.02	.03	.06	.02	.23	.11	.16	.18	.22	.09	.04	.05	1.94	
SANDY HOOK							.02	.01	.09	.11	.04	.09		.16	.06	.04	.03	.03	.03	.06	.08	.13	.12	.04	.08	1.22	
SPRINGFIELD	.03	.02	.01				.06	.16	.17	.13	.10	.23		.23	.05	.06	.08	.03	.10	.08	.15	.12	.13	.09	.08	2.11	
TRENTON WB CITY	.04	.08	.03		.03	.14	.12	.15	.15	.46	.21	.23		.12	.06	.11	.07	.04	.06	.08	.13	.07	.07	.07	.25		
WANAQUE RAYMOND DAM	.06	.02	.04	.08	.11	.12	.14	.25						*	*	*	*	*	*	*	*	*	*	*	*		
WATCEUNG	.01	.03	.06		.01	.10	.07	.05	.16	.18	.27	.29		.20	.07	.07	.06	.06	.10	.10	.19	.15	.12	.09	.09	2.53	
WESTFIELD	.01	.01	.04		.01	.01	.08	.18	.15	.12	.13	.30		.15	.06	.06	.08	.04	.09	.05	.15	.15	.11	.11	.06	2.19	
WOODCLIFF LAKE	.03	.02	.02				.02	.15	.15	.09	.12	.13		.19	.14	.05	.06	.06	.07	.09	.16	.14	.10	.07	.08	1.94	
	-31st-																										
ATLANTIC CITY WB	.14	.08	.04	.01	.01									.01											.29		
CAPE MAY	.03																								.03		
CHARLOTTEBURG																											
ELIZABETHPORT	.10	.16	.05	.12	.14	.18	.08	.09	.02	.03					.02	.02	.02	.01	.02	.01			.01	.01	.01	1.10	
FREEHOLD	.15	.10	.06	.06	.13	.13	.06	.01																		.70	
GLASSBORO																											
GREAT MEADOWS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.38	*	*	*	*	4.38	
HIGHTSTOWN PUMPING STATION																											
IRVINGTON	.12	.14	.06	.06	.10	.12	.12	.01	.11	.08						.03	.03	.02	.02	.01			.01	.01	.01	1.06	
LAKEHURST AIRPORT	.15	.06	.08	.01	.07	.02			.03	.03	.01															.46	
LONG BRANCH	.16	.19	.08	.10	.10	.13	.10	.09	.01			.03		.02	.01	.01	.01	.01	.02	.02	.01					1.10	
LUMBERTON	.02	.05	.04	.03																						.14	
MARLBORO	.13	.14	.06	.09	.04	.18	.09	.05																		.78	
MILLVILLE	.02	.02		.01										.01												.06	
MILLVILLE AIRPORT 6	*	.29																									
NEWARK WB AIRPORT	.14	.18	.10	.09	.11	.13	.09	.09	.08	.01		.01		.02	.01	.02	.02	.01	.02	.01	.01	.01	.01	.01	.01	1.18	
NEW MILFORD	.10	.17	.07	.09	.07	.07	.10	.05	.09		.01	.02		.03	.02	.01	.02	.01	.01	.03	.05	.02	.02	.02	.02	1.10	
QUAKERTOWN	.12	.06	.04	.08	.03	.03																				.36	
RAHWAY	.06	.09	.09	.11	.07														.13								
SANDY HOOK	.13	.18	.06	.11	.12	.11	.10																				

DAILY TEMPERATURES

NEW JERSEY
DECEMBER 1948

Table 5

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ATLANTIC CITY WB	MAX	55	51	54	54	53	60	57	56	41	41	41	56	64	55	47	51	50	39	43	33	49	48	40	34	30	25	39	44	52	53	46	47.1
	MIN	38	35	44	44	39	46	45	39	34	30	27	41	47	38	36	47	35	31	29	29	31	36	30	26	15	14	15	30	42	46	31	34.5
BELLEPLAIN	MAX	54	53	53	56	56	60					46	55	64	66	57	58	52	38	35	34	51	53	42	33	30	40	52	57	59	53	50.3	
	MIN	41	41	32	48	36	50			28	36	20	26	40	39	32	31	37	27	32	27	20	24	31	28	12	1	14	23	52	29	30.6	
BELVIDERE	MAX	50	43	46	60	56	53	55	51	42	41	48	44	56	50	37	34	40	35	28	35	35	44	37	30	26	22	28	35	41	47	47	41.8
	MIN	31	23	29	41	28	43	29	34	25	24	24	32	34	35	27	25	30	23	21	21	18	13	25	21	9	10	3	7	18	36	25	24.6
BOONTON	MAX	46	50	46	50	60	58	55	56	52	40	39	40	56	56	47	33	38	44	32	28	31	37	44	37	23	24	19	30	40	48	54	42.4
	MIN	21	23	26	30	29	29	35	27	24	21	25	25	26	36	28	25	31	23	19	21	10	16	28	20	4	7	-6	-3	16	32	32	21.9
BRIDGETON	MAX	51	48	50	57	55	59	57	53	42	40	41	53	61	53	45	50	48	37	34	34	47	44	40	32	30	23	36	45	53	54	44	45.7
	MIN	28	27	36	48	37	42	30	40	29	30	24	29	39	40	31	34	35	29	27	23	21	30	31	25	21	13	8	19	29	43	29	29.9
BURLINGTON	MAX	52	50	47	60	58	58	61	57	51	42	42	64	59	57	48	40	45	39	33	32	43	43	40	32	29	29	33	47	50	57	52	46.8
	MIN	30	26	32	45	37	44	30	41	29	31	27	31	42	42	28	30	34	29	26	26	24	28	32	24	14	11	6	14	27	45	30	29.5
CANOE BROOK	MAX	49	52	49	46	55	59	56	56	53	42	42	42	52	59	50	33			36	27	35	36	44	39	30	24	22	31	44	53	57	43.9
	MIN	22	17	25	33	22	25	28	30	19	22	18	26	31	32	28	26	28	24	19	19	2	6	22	19	-5	-7	-12	2	9	30	32	19.1
CAPE MAY	MAX	54	51	55	56	55	60	58	56	50	42	44	55	62	53	49	54	48	45	38	37	50	49	45	38	33	27	39	46	50	51	46	48.3
	MIN	31	36	47	50	41	46	46	49	37	36	32	47	47	47	35	46	41	31	31	31	32	42	38	9	24	12	32	36	37	28	36.6	
CHARLOTTEBURG	MAX	49	46	47	57	57	53	57	52	46	40	38	42	57	55	40	34	40	38	33	29	30	44	36	30	24	15	31	39	47	54	53	42.4
	MIN	24	20	25	42	26	41	38	36	22	26	23	29	34	33	24	32	21	15	19	5	22	28	15	-1	4	-11	5	10	46	20	22.5	
CHATSORTH	MAX	54	50	53	54	60	60	60	55	48	41	44	58	62	53	46	50	50	41	35	35	48	45	42	33	30	30	38	45	55	58	55	48.0
	MIN	25	18	30	40	30	37	22	40	23	28	17	28	41	35	32	33	35	25	25	30	18	22	29	23	8	9	-4	7	21	52	28	26.0
CLAYTON	MAX	50	48	50	57	58	59	58	53	43	41	41	53	60	52	44	48	47	36	32	33	47	44	34	31	28	27	33	44	52	56	45	45.3
	MIN	26	24	35	46	35	44	30	40	29	30	23	29	41	42	31	33	35	29	26	24	15	30	29	19	17	12	5	16	30	45	29	29.0
KLIZABETH	MAX	53	47	47	56	60	56	60	56	48	44	44	55	61	53	43	37	47	39	30	33	38	47	41	34	25	24	30	44	46	57	55	45.5
	MIN	28	24	29	45	48	42	30	37	25	30	21	28	39	37	27	27	31	26	24	22	27	25	29	21	7	8	-2	10	21	42	25	26.9
FLEMINGTON	MAX	52	47	43	61	58	58	57	53	47	42	42	51	59	51	44	36	45	36	29	37	33	43	40	31	28	22	31	42	45	49	46	43.8
	MIN	26	18	26	42	28	37	24	33	24	25	21	27	32	31	26	26	33	23	17	19	0	5	30	21	-3	6	-14	0	10	37	28	21.2
FREEHOLD	MAX	52	49	50	55	56	57	58	52	42	41	42	55	59	51	37	43	42	33	28	28	42	45	36	29	26	20	32	42	51	57	51	43.9
	MIN	31	25	35	45	31	44	35	42	27	28	23	30	42	37	27	31	33	25	26	20	13	25	25	19	15	4	-1	14	26	49	25	27.5
HAMMONTON	MAX	48	46	51	56	60	68	62	56	48	42	45	62	63	39	41	42	42	31	34	46	45	37	35	27	24	28	48	51	59	58	46.5	
	MIN	34	28	38	43	39	34	29	39	27	36	26	29	35	38	34	35	34	29	27	28	16											
HIGHTSTOWN	MAX	51	44	46	57	56	56	60	52	47	42	40	55	57	51	41	40	45	36	31	30	42	43	37	30	26	22	32	42	48	57	54	44.2
	MIN	31	23	31	43	31	40	33	41	27	29	22	30	39	37	28	29	33	26	25	21	9	13	27	18	0	7	-6	7	16	46	28	25.3
INDIAN MILLS 2 W	MAX	52	49	52	56	59	59	60	54	44	41	43	56	61	52	42	49	47	36	32	33	48	45	38	31	28	22	35	45	55	58	52	46.3
	MIN	25	18	29	47	32	39	25	40	25	29	16	26	40	39	30	32	35	24	26	25	10	27	29	17	8	8	-3	9	25	50	29	26.2
JERSEY CITY	MAX	50	43	45	55	55	53	52	53	43	33	39	50	56	47	32	35	42	34	27	29	37	42	37	27	23	18	29	40	49	51	48	41.4
	MIN	26	33	37	44	38	43	40	37	33	32	29	35	45	32	26	30	32	25	23	23	25	31	25	17	14	10	5	17	26	47	22	29.1
LAKEWOOD	MAX	52	48	53	55	53	57	58	59	41	40	43	57	60	52	41	48	45	36	32	32	43	43	39	31	27	21	35	42	53	56	50	45.2
	MIN	24	19	28	47	30	42	27	40	24	27	23	28	35	32	31	35	34	26	27	20	10	28	31	20	4	9	-6	9	17	48	27	25.7
LAMBERTVILLE	MAX	52	47	44	63	60	58	59	52	41	42	41	52	59	51	42	36	43	37	30	35	39	44	38	31	28	26	32	45	49	53	47	44.4
	MIN	29	21	29	41	27	41	27	34	24	26	20	30	33	34	28	30	33	25	24	24	13	13	29	13	6	10	-3	8	17	45	30	24.5
LAYTON 3 NW	MAX	50	46	45	60	54	56	54	52	45	39	39	43	58	52	40	32	40	41	30	30	30	43	39	31	22	20	30	40	42	48	43	41.7
	MIN	23	14	24	32	18	33	25	31	16	17	17	30	30	32	20	24	30	15	10	23	5	7	25	15	3	4	-14	0	10	35	22	18.5
LITTLE FALLS WATER CO	MAX	47	51	47	52																												

DAILY RIVER STAGES

NEW JERSEY
DECEMBER 1948

Table 7

River and Station	Flood stage	Day of month																														Highest	Date	Lowest	Date	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					31
DELAWARE TRENTON	12	1.7	1.4	1.3	1.3	1.3	1.7	1.1	1.3	1.6	1.4	1.3	1.2	1.1	1.0	1.0	1.2	1.7	1.8	1.6	1.5	f1.3	f1.5	f1.2	f1.2	f1.2	f1.1	c2.0	c1.9		f3.4	8.8	8.8	31	1.0	14

Daily River Stages will not be published in Climatological Data in the future. They will be published annually in the publication "Daily River Stages - Principal Rivers of the United States".

The following reference notes apply only to Table 7 - Daily River Stages:

Readings are made at approximately 7 a.m. (local time). They are provisional and subject to correction. Final and corrected stages will be published in the annual publication "Daily River Stages - Principal Rivers of the United States".

a Obstructed by rough ice.
b Frozen but open at gage.
c Upper surface of smooth ice.
d Ice gorge above gage.
e Ice gorge below gage.

f Shore ice.
g Floating ice.
h Pool stage.
i Dry at gage.
j Interpolated.

STATION INDEX

NEW JERSEY
DECEMBER 1948

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT.	LONG.	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
ATLANTIC CITY WB	0325	ATLANTIC	COASTAL	39 22	74 25	8	EST	MID	MID	75	75		U S WEATHER BUREAU	2 3 4 5
BASS RIVER STATE FOREST	0528	BURLINGTON	COASTAL	39 35	74 28		EST		6P		2		N J FORESTRY SERVICE	2 3 5
BELLEPLAIN	0690	CAPE MAY	COASTAL	39 16	74 52	49	EST	5P	5P	54	54		MRS ED C HOFFMAN	2 3 5
BELMAR	0721	MONMOUTH	COASTAL	40 10	74 02	19	EST		MID	7	7		CITY WATER DEPT	3
BELVIDERE	0729	WARREN	DELAWARE	40 50	75 05	289	EST	5P	5P	56	56		MIS8 C S HIXSON	2 3 5
BERLIN 1 MI W	0787	CAMDEN	MULLICA	39 48	74 56	70	EST		7A		7		SAMUEL H MC CULLEY	3
BOONTON	0907	MORRIS	PASSAIC	40 54	74 24	280	EST	8A	8A	40	58		JERSEY CITY WTR WKS	2 3 5
BRIDGETON	1028	CUMBERLAND	DELAWARE	39 26	75 14	30	EST	6P	6P	60	65		BENNET K MATLACK	2 3 5
BRIDGETON NO 2	1033	CUMBERLAND	DELAWARE	39 30	75 14		EST		8A				SEABROOK FARMS	3
BROOKLAWN	1106	CAMDEN	DELAWARE	39 53	75 07	30	EST		4P	7	7		C D SCOTT	3
BURLINGTON	1211	BURLINGTON	DELAWARE	40 04	74 51	12	EST	6P	6P	36	62		PUBLIC SERVICE E&G CO	2 3 5
CANISTEAR RESERVOIR	1327	SUSSEX	PASSAIC	41 07	74 30	1040	EST		8A				DIVISION OF WATER	3
CANOE BROOK	1335	ESSEX	PASSAIC	40 45	74 21	180	EST	9A	9A	18	18	18	N J DEPT OF CONSERV	2 3 5 6
CANTON	1343	SALEM	DELAWARE	39 28	75 25	8	EST		9A		2		GERTRUDE S WILLIS	3
CAPE MAY	1351	CAPE MAY	COASTAL	38 56	74 57	17	EST	5P	5P	23	60		N W MAGNESITE CO	2 3 4 5
CEDAR GROVE	1472	ESSEX	PASSAIC	40 52	74 13	400	EST		8A				J A PLUNKETT	3
CHARLOTTEBURG	1582	PASSAIC	PASSAIC	41 02	74 26	760	EST	4P	4P	56	56		NEWARK WATER DEPT	2 3 4 5
CHATAM	1590	MORRIS	PASSAIC	40 44	74 23	185	EST		8A	44	44		EDWARD P MOLITOR	3
CHATSORTH	1598	BURLINGTON	COASTAL	39 48	74 32	90	EST	5P	5P	8	8		A L STEVENSON	2 3 5
CLATTON	1708	GLOUCESTER	MAURICE	39 39	75 06	120	EST	6P	6P	35	55		HARRY P CAMPBELL	2 3 5
CLINTON	1749	HUNTERDON	RARITAN	40 38	74 55	300	EST		6P		5		L W KLOCKNER	3
CULVERS LAKE	2130	SUSSEX	DELAWARE	41 10	74 47	760	EST		5P		47		L S DEPUZ	3
DEEPWATER	2209	SALEM	DELAWARE	39 41	75 30		EST						DU PONT DE NEMOURS CO	3
ELIZABETH	2644	UNION	COASTAL	40 40	74 14	33	EST	5P	5P	69	69		UNION CO PARK COMM	2 3 5
ELIZABETHPORT	2652	UNION	PASSAIC	40 39	74 12	30	EST						SEWAGE TREATMENT PLT	3 4
ESSEX FELS	2773	ESSEX	PASSAIC	40 49	74 17	250	EST		8P		3		EDWARD T WICK	3
FLEMINGTON 1 MI NE	3029	HUNTERDON	RARITAN	40 30	74 52	134	EST	5P	5P	51	62		DONALD YOUNG	2 3 5
FORTESCUE	3102	CUMBERLAND	DELAWARE	39 14	75 10	5	EST		5P				F A RODENBAUGH	3
FREEHOLD	3181	MONMOUTH	RARITAN	40 15	74 17	194	EST	5P	5P	44	44		FRANK J MOREAU	2 3 4 5
GLASSBORO	3291	GLOUCESTER	DELAWARE	39 42	75 07		EST						PROF SANGREE	3 4
GREAT MEADOWS	3416	WARREN	RARITAN	40 52	74 55	510	EST						HENRY TOPOLESKI	3 4
GREENWOOD LAKE	3516	PASSAIC	PASSAIC	41 09	74 20	660	EST		7A				WATER SUPPLY COMM	3
HAMMONTON	3662	ATLANTIC	MULLICA	39 38	74 48	95	EST	5P	5P	16	42		J G WILSON	2 3 5
HIGHTSTOWN	3951	MERCER	RARITAN	40 16	74 31	100	EST	8P	8P	52	55		JAMES R PICKERING	2 3 5
HIGHTSTOWN PUMPING STA	3956	MERCER	RARITAN	40 17	74 32	75	EST						DEPT WATER & SEWERS	3 4
INDIAN MILLS 2 MI W	4229	BURLINGTON	MULLICA	39 48	74 45	100	EST	8P	8P	58	59		EDWARD ENTWISTLE	2 3 5
IRVINGTON	4260	ESSEX	COASTAL	40 43	74 15		EST						SEWAGE TREATMENT PLT	3 4
JERSEY CITY	4339	HUDSON	COASTAL	40 44	74 04	135	EST	MID	MID	50	50		JERSEY CITY WTR DEPT	2 3 5
LAKEHURST AIRPORT	4596	OCEAN	COASTAL	40 02	74 19	128	EST						U S NAVY	3 4
LAKEWOOD 1 MI ENE	4627	OCEAN	COASTAL	40 06	74 13	54	EST	6P	6P	44	44		GEORGE G WADDILL	2 3 5
LAMBERTVILLE	4635	HUNTERDON	DELAWARE	40 22	74 57	75	EST	6P	6P	61	61		GEORGE BAILEY	2 3 5
LAYTON 3 MI NW	4735	SUSSEX	DELAWARE	41 13	74 50	480	EST	6P	6P	47	47		A M DEPUZ	2 3 5
LITTLE FALLS WATER CO	4887	PASSAIC	PASSAIC	40 53	74 14	157	EST	9A	9A	34	45		PASSAIC VALLEY WTR CO	2 3 5
LONG BRANCH	4987	MONMOUTH	COASTAL	40 18	74 00	34	EST	MID	MID	40	40		STORM WARNING DIS STA	2 3 4 5
LONG VALLEY	5003	MORRIS	RARITAN	40 48	74 46	660	EST	7A	7A	18	18		ARTHUR BACKMAN	2 3 5
LUMBERTON	5055	BURLINGTON	DELAWARE	39 58	74 48	25	EST						MARY ELLEN SERVAN	3 4
MACOPIN INTAKE	5071	PASSAIC	PASSAIC	41 01	74 24		EST		9A				HAROLD QUACKENBUSH	3
MANVILLE	5197	SOMERSET	RARITAN	40 33	74 34	50	EST				3		R R STONE	3
MARLBORO	5244	MONMOUTH	COASTAL	40 20	74 14	120	EST		MID				GEROW BRILL	3 4
MARLTON 1 MI W	5252	BURLINGTON	DELAWARE	39 54	74 55	90	EST		6P		7		DAVID GRISCOM	3
MAYS LANDING	5346	ATLANTIC	GREAT EGG HARBOR	39 27	74 44	50	EST		5P		4		ELMER EARLE	3
MIDLAND PARK	5503	BERGEN	PASSAIC	40 59	74 09	210	EST		9A		2		HARRY MITCHELL	2 3 5
MILLVILLE	5576	CUMBERLAND	MAURICE	39 24	75 03	60	EST		MID		8		L J GALLAHER	3 4
MILLVILLE AIRPORT	5581	CUMBERLAND	MAURICE	39 22	75 05	76	EST	MID	MID	2	2		CIVIL AERO ADM	2 3 4 5
MILTON	5597	MORRIS	PASSAIC	41 01	74 32		EST		7A				JERSEY CITY WTR WORKS	3
MOORESTOWN	5728	BURLINGTON	DELAWARE	39 58	74 57	62	EST	MID	8A	85	85		JAPANESE BEETLE LAB	2 3 5
MORRIS PLAINS 1 MI W	5769	MORRIS	PASSAIC	40 50	74 30	400	EST	4P	4P	3	7		JAMES C LONG	2 3 5
NEWARK WB AIRPORT	6026	ESSEX	COASTAL	40 42	74 10	11	EST	MID	MID	49	94		U S WEATHER BUREAU	2 3 4 5
NEW BRUNSWICK	6062	MIDDLESEX	RARITAN	40 29	74 27	99	EST	5P	5P	91	94		NEW JERSEY EXP STA	2 3 5
NEW MILFORD	6146	BERGEN	HACKENSACK	40 57	74 02	12	EST		MID		30		HACKENSACK WATER CO	3 4
NEWTON	6177	SUSSEX	DELAWARE	41 03	74 45	769	EST	8A	8A	65	65		C M WHEELER	2 3 5
OAK RIDGE RESERVOIR	6460	PASSAIC	PASSAIC	41 02	74 30	870	EST		4P				DIV OF WATER NEWARK	3
ORANGE	6560	ESSEX	PASSAIC	40 47	74 14	140	EST		MID		8		COUNTY ENGINEER	3 4
PATERSON	6775	PASSAIC	PASSAIC	40 55	74 10	100	EST	8A	8A	78	77		P J DEL VECCHIE	2 3 5
PEMBERTON 1 MI E	6843	BURLINGTON	DELAWARE	39 58	74 41	60	EST	5P	5P	19	19		CHARLES A DOERHLERT	2 3 5
PHILLIPSBURG	6974	WARREN	DELAWARE	40 41	75 12	182	EST	10P	10P	57	65		TOWN ENGINEER	2 3 5
PHILLIPSBURG BRIDGE	6979	WARREN	DELAWARE	40 42	75 12		EST		8A		9		JOINT TOLL BRDG COMM	3
PLAINFIELD	7079	UNION	RARITAN	40 37	74 25	120	EST	8P	8P	57	60		S K PEARSON	2 3 5
PLAINSBOBO	7095	MIDDLESEX	RARITAN	40 19	74 36	110	EST		6P		7		WALKER-GORDON LAB	3
PLEASANTVILLE	7131	ATLANTIC	COASTAL	39 25	74 31	8	EST	9A	9A	25	50	25	N J DEPT OF CONSERV	2 3 5 6
QUAKERTOWN	7372	HUNTERDON	DELAWARE	40 34	74 57	645	EST		ar				WILLIS W VAIL	3 4
RAHWAY	7393	UNION	RAHWAY	40 36	74 15	20	EST		MID		9		LOUIS FONTENELLI	3 4
RIDGEFIELD	7545	BERGEN	HACKENSACK	40 50	74 00	80	EST	MID	7P	31	31		GEORGE P KIRSTEN	2 3 5
RINGWOOD	7587	PASSAIC	PASSAIC	41 02	74 16	305	EST		10A		1		NO JERSEY WATER SUPP	3
RUNNEMEDE 1 MI W	7817	CAMDEN	DELAWARE	39 51	75 04	42	EST	9P	6P				HENRY D MOSHER	2 3 5
RUNYON	7825	MIDDLESEX	COASTAL	40 26	74 20	18	EST	6P	6P	24	25	25	N J DEPT OF CONSERV	2 3 5 6
RUTHERFORD	7833	BERGEN	PASSAIC	40 49	74 07	51	EST	8P	8P	4	4		HAROLD SCOTT	2 3 5
SANDY HOOK	7869	MONMOUTH	COASTAL	40 28	74 01	22	EST	7P	MID	50	50		U S COAST GUARD	2 3 4 5
SOMERVILLE	8194	SOMERSET	RARITAN	40 35	74 18	65	EST	6P	6P	62	65		W E HAVER	2 3 5
SPLIT ROCK POND	8402	MILTON	ROCKAWAY	40 58	74 28		EST		10A				JERSEY CITY D P W	3
SPRINGFIELD	8423	UNION	COASTAL	40 43	74 18		EST		MID				N J DEPT OF CONSERV	3 4
SUSSEX	8644	SUSSEX	HUDSON	41 13	74 36	450	EST	6P	6P	50	53		MARSHALL HUNT	2 3 5
SWEDESBOBO	8680	GLOUCESTER	DELAWARE	39 45	75 19	75	EST		6P		2		E F HURFF CO	3
SWEDESBOBO 5 MI NW	8685	GLOUCESTER	DELAWARE	39 47	75 24	10	EST		NOON		2		SUN OIL CO	3
TOMS RIVER	8816	OCEAN	COASTAL	39 57	74 14	33	EST		5P		27		ROBERT F SNYDER	3

STATION INDEX — Continued

NEW JERSEY
DECEMBER 1948

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. O /	LONG. O /	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
TRENTON NO 2	8878	MERCER	DELAWARE	40 14	74 46	105	EST	MID	MID	18	18		E H RISTOW	2 3 5
TRENTON WB CITY	8883	MERCEH	DELAWARE	40 13	74 46	56	EST	MID	MID	76	76		U S WEATHER BUREAU	2 3 4 5 7
TUCKERTON	8899	OCEAN	COASTAL	39 36	74 20	23	EST	6P	6P	49	54		WALTER J WARREN	3
VINELAND	9135	CUMBERLAND	MAURICE	39 29	75 01	110	EST		5P	58	68		ROBERT JONES	3
WANAQUE RAYMOND DAM	9187	PASSAIC	PASSAIC	41 02	74 18	320	EST		8A		2		WATEH SUPPLY COMM	3 4
WATCHUNG	9271	UNION	PASSAIC	40 40	74 25								BONNIE BURN SAN'TRM	3 4
WESTFIELD	9455	UNION	RAHWAY	40 39	74 21	135	EST		9A		9		TOWN ENGINEER	3 4
WOODCLIFF LAKE	9832	BERGEN	HACKENSACK	41 01	74 03	103	EST		MID		30		HACKENSACK WATER CO	3 4
WOODSTOWN 2 MI NW	9910	SALEM	DELAWARE	39 40	75 20	16	EST	6A	6A	2	12		CHARLES CLARK	2 3 5

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late for inclusion in this issue.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Data in Tables 3, 5 and 6 are for the 24-hours ending at time of observation. See the Station Index for observation time.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, river stages in feet, and wind movement in miles.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with windshield.
- 6 No recording gage, precipitation is measured at 6-hourly intervals.
- h Adjusted to a full month.
- m One or more days of record missing; see Table 5 for detailed daily record.
- ss This entry in time of observation column in Station Index means sunset.
- r Station equipped with recording gage only. All amounts in Table 3 are from the non-recording gages, except for stations with this reference.
- x Daily precipitation totals in Table 3 are for the 24-hours ending at 1:30 A.M., E.S.T., of the following day.
- z Hourly amounts from the recording gage at the same site may be found in Table 4.
- T Trace, an amount too small to measure.

When hourly precipitation is accumulated over a period of 3 or more calendar days, with unknown hourly or daily distribution, the first and last days are shown in Table 4.

When hourly precipitation is missing for several days, only the first and last days are shown in Table 4.

Data in Table 4 were formerly published in the Hydrologic Bulletin for North Atlantic District. Amounts in this table are from recording gages. Traces are not shown.

Subscription Price: 15¢ per copy; \$1.50 a year. (Yearly subscription includes Annual Summary. Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, Federal Building, Albany 1, N.Y.)

W.R.P.C., Albany, N.Y.--- 2-18-49--- 1100

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U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

CLIMATOLOGICAL DATA

NEW JERSEY

ANNUAL SUMMARY 1948

Volume LIII No. 13



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NEW JERSEY - 1948

A. E. White, Section Director - Trenton

GENERAL SUMMARY

Temperature for the year 1948 averaged practically normal in New Jersey. The year began with the coldest January since 1940. The month averaged 6.7° below normal and was decidedly the coldest month of the year, though February and December both had minima much below zero in north Jersey. November was the only month decidedly warmer than normal and was, with one exception, the warmest November of record in this State. July as usual averaged the warmest month though the hottest days of the summer occurred during the last week of August. While August was mostly cool, the last week was the hottest week of record in the State except for the week of July 8-14, 1936. A reading of 106° was registered at Clayton on the 26th, being the second highest of record for the State.

With average annual precipitation of 52.00 inches for the State, the year, as a whole, was considerably wetter than normal. May was decidedly the wettest month with more than twice its normal rainfall. It was, moreover, the wettest May in New Jersey since 1894. Rain fell somewhere in the State nearly every day and several stations recorded over ten inches for the month. June, August and December were also considerably wetter than normal. Some unusually heavy rain periods were: May 12-13 and 30-31; July 13-14; August 1-6 and 20-22; and the last three days of December. The last named period brought the Delaware River to flood stage at Trenton for the first time in six years. September and October were dry months. Snowfall, as in 1947, was again much greater than normal. While all the winter months had moderate to heavy snowfall, the outstanding storm of the year was on December 19. At that time, snowfall was heavy over the State except the southeast coastal section but the heaviest falls were in central and northeast Jersey, several stations recording 12 to 15 inches.

Weather conditions during the crop growing season were, on the whole, satisfactory. The wet weather in May delayed corn planting and interfered with cultivation of other crops, but June was more favorable, and with adequate soil moisture, crops made excellent growth throughout the summer. Dry weather prevailed in late September and October, but was too late in the season to greatly harm production of major crops. Ideal harvesting conditions prevailed in the fall and no generally killing frost occurred until October 19. Tropical storm centers of the fall season passed well out to sea and nowhere in the State, did winds reach hurricane force. Hence only the usual wind damage occurred.

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U.S. Weather Bureau, Washington 25, D.C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

NEW JERSEY
1948

Table 1

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure
ATLANTIC CITY WB	29.4	- 3.1	34.4	0.8	42.0	3.4	49.0	1.2	57.9	- 0.2	68.0	1.4	74.0	1.9	73.6	1.2	68.2	- 1.4	56.6	- 0.3	52.6	7.0	40.8	4.4	53.9	1.6
BELLEPLAIN	27.3	- 6.2	33.9	1.2	44.6	3.4	50.8	0.5	61.8	0.7	70.4	1.0	74.6	0.9	74.2M	1.8	66.4	- 0.1	54.6	- 0.8	50.9	6.1	40.5	5.1	54.2	1.2
BELVIDERE	21.4	- 6.5	27.6	- 0.8	41.6	2.9	51.4	1.5	61.4	- 0.3	70.0	0.4	75.8	2.0	78.9	2.5	68.0	2.7	53.5	- 1.3	48.8	7.3	33.2	2.2	52.2	1.1
BOONTON	20.0	- 7.8	25.2	- 3.0	37.8	1.5	48.3	0.0	57.1	- 1.8	66.6	- 1.2	72.5	0.2	71.7	1.3	64.0	0.3	51.8	- 0.6	47.3	5.6	32.2	1.9	49.6	- 0.2
BRIDGETON	26.8	- 6.9	33.2	- 0.8	45.4	2.9	52.2	- 0.2	62.2	- 1.4	71.2	- 1.0	76.1	- 0.4	73.8	- 1.0	67.2	- 1.2	55.1	- 1.9	51.4	5.6	37.8	1.8	54.4	- 0.3
BURLINGTON	26.4	- 6.5	32.0	- 1.3	45.4	3.0	53.0	0.8	63.4	- 0.3	72.0	0.6	76.8	0.8	76.2	1.8	-	-	55.7M	- 1.5	52.7	6.9	38.2	3.2	-	-
CANOE BROOK	18.3	- 9.9	24.2	- 4.2	39.1	1.9	48.9	1.4	58.4	- 0.6	67.3	- 0.5	73.4	1.0	71.8	1.1	64.7	0.7	51.6	- 1.0	47.7	5.9	31.5M	0.9	49.8	- 0.2
CAPE MAY	30.2	- 4.6	35.0	0.2	43.8	2.0	51.4	1.4	61.2	2.9	70.8	2.4	75.6	2.1	75.4	2.6	68.6	1.1	-	-	-	-	42.5M	5.4	-	-
CHARLOTTEBURG	21.2	- 6.1	25.4	- 1.7	39.2	2.8	48.6	1.7	57.6	- 0.3	65.8	0.1	71.0	0.6	69.8	1.5	63.4	0.9	50.8	- 0.7	47.0	6.0	32.5	2.1	49.4	0.6
CHATSWORTH	26.0	-	32.2	-	45.0	-	50.2	-	61.0	-	67.6	-	74.2	-	73.6	-	66.3	-	54.1	-	50.7	-	37.0	-	53.2	-
CLAYTON	26.4	- 5.5	32.6	0.7	44.8	2.8	52.4	1.2	62.0	0.0	71.2	1.2	76.2	1.0	74.5	1.2	67.3	0.1	54.3	- 2.1	51.3	6.6	37.2	2.5	54.2	0.8
ELIZABETH	24.1	- 6.8	29.5	- 1.8	43.2	3.6	51.6	0.5	60.5	- 1.4	69.1	- 1.5	75.6	0.2	74.0	0.6	67.6	0.6	55.0	- 0.3	51.0	7.0	36.2	2.5	53.5	0.7
FLEMINGTON	25.0	- 5.4	29.2	- 1.2	43.3	2.7	51.2	0.7	60.6	- 1.0	68.8	- 1.4	75.0	0.0	72.8	- 0.1	66.2	- 0.7	52.9	- 2.8	48.6	4.8	32.5	- 0.3	52.2	- 0.4
FREEHOLD	24.4	- 7.5	30.6	- 0.9	43.4	3.6	50.1	0.1	60.7	- 1.3	69.1	- 1.6	75.2	0.6	73.8	0.9	66.6	0.4	53.7	- 1.3	51.4	6.5	35.7	1.6	52.9	0.1
HAMMONTON	26.0	- 7.3	31.4	- 3.0	-	-	52.6	1.3	61.8	- 1.6	70.5	- 1.3	76.3	0.5	74.4	0.3	66.7	- 0.6	55.7M	- 0.5	51.9	8.7	-	-	-	-
HIGHTSTOWN	23.8	- 6.5	29.3	- 1.7	43.3	2.6	50.4	0.1	60.0	- 1.1	68.6	- 0.7	74.7	0.5	73.0	0.8	66.0	- 0.5	53.7	- 1.2	50.1	6.2	34.8	1.6	52.3	0.0
INDIAN MILLS 2 W	25.4	- 6.8	31.8	- 0.8	43.4	2.3	50.6	0.0	60.6	- 1.4	69.4	- 0.8	74.6	0.0	73.0	0.4	65.2	- 1.3	53.5	- 1.8	49.9	5.9	36.3	2.0	52.8	- 0.2
JERSEY CITY	23.8	- 8.9	28.4	- 3.3	40.0	- 0.1	48.8	- 1.7	-	-	-	-	74.2	- 1.7	72.7	- 1.2	66.2	- 1.5	53.0	- 3.0	49.7	4.7	35.3	0.6	-	-
LAKEWOOD	-	-	-	-	-	-	60.2	- 0.6	68.4	- 0.7	73.6	0.0	71.6	0.0	63.2	- 2.3	51.4M	- 3.1	49.4	-	-	5.4	35.5	1.2	-	-
LAMBERTVILLE	24.8	- 5.5	29.8	- 0.9	43.3	3.8	51.4	1.3	61.6	0.4	69.4	- 0.3	74.9	0.7	72.8	0.5	66.7	0.7	53.9	- 0.5	49.5	6.2	34.5	1.3	52.7	0.6
LAYTON 3 NW	18.8	- 6.5	23.8	- 1.7	37.7	1.9	48.4	1.5	56.8	- 1.1	66.2	- 0.1	71.5	0.3	69.6	0.9	62.9	0.3	49.9	- 1.0	46.4	6.9	30.1	1.9	48.5	0.3
LITTLE FALLS WATER CO	23.6	- 5.6	27.7	- 2.6	40.8	1.8	51.0	1.3	59.9	- 0.7	68.6	- 0.8	75.0	0.9	73.6	1.5	66.8	1.3	53.3	- 0.9	49.7	6.5	35.1	2.6	52.2	0.6
LONG BRANCH	24.8	- 6.9	30.9	- 0.5	41.6	2.1	49.2	0.7	58.5	- 0.4	68.2	0.1	74.6	1.5	73.0	1.3	66.0	- 0.1	54.8	- 0.5	50.0	5.4	36.9	2.5	52.3	0.4
LONG VALLEY	20.4	- 6.8	25.4	- 2.3	38.4	2.6	48.4	0.7	57.8	- 1.2	65.6	- 2.0	71.6	0.1	70.6	1.2	63.0	0.1	50.1	- 1.4	46.8	5.7	31.9	2.1	49.2	- 0.1
MILLVILLE AIRPORT	26.0	-	31.9	-	44.0	-	50.6	-	61.6	-	70.4	-	75.6	-	73.8	-	66.8	-	54.3	-	49.8	-	37.2	-	53.5	-
MOORESTOWN	25.0	- 6.1	31.0	- 0.8	42.7	2.7	50.4	- 0.1	60.1	- 1.3	69.0	- 1.3	74.6	0.2	72.6	0.0	66.0	- 0.3	53.3	- 1.6	49.5	6.3	36.3	2.5	52.5	- 0.1
MORRIS PLAINS	21.8	-	26.8	-	41.2	-	50.6	-	57.5	-	67.5	-	73.7	-	72.6	-	65.0	-	52.1	-	48.6	-	34.0	-	51.0	-
NEWARK WB AIRPORT	24.4	- 5.4	29.3	- 0.5	41.8	2.2	50.3	0.1	60.0	- 1.4	69.4	0.5	76.7	1.9	74.7	1.7	68.4	1.9	55.1	- 0.5	50.8	6.8	35.9	2.5	52.7	0.4
NEW BRUNSWICK	24.4	- 6.1	30.0	- 1.1	43.2	4.1	51.0	1.2	60.6	- 0.1	69.2	- 0.2	74.6	0.5	73.4	1.2	66.9	1.0	53.8	- 1.0	50.6	6.8	35.4	2.0	52.7	0.6
NEWTON	17.2	- 9.3	23.6	- 3.6	37.2	1.1	48.6	0.6	57.8	- 1.5	65.8	- 2.2	72.1	- 0.5	70.6	0.2	62.8	- 1.1	50.1	- 2.6	45.9	4.9	30.3	0.1	48.5	- 1.2
PATERSON	-	-	-	-	39.8	0.4	51.4	0.8	60.4	- 1.2	69.8	- 0.3	76.8	2.2	75.3	3.0	68.2	1.9	55.0	0.0	51.2	7.4	36.3	3.0	-	-
PEMBERTON 1 E	25.3	- 8.2	31.4	- 2.2	44.8	2.7	52.0	0.3	61.6	- 2.1	69.8	- 2.2	74.8	- 1.2	73.4	0.9	66.1	- 2.1	53.7	- 2.5	50.9	4.5	36.2	0.8	53.3	- 1.1
PHILLIPSBURG	21.3	- 7.3	26.2	- 2.8	40.1	1.6	51.8	2.3	59.1	- 2.1	68.6	- 0.9	74.4	0.5	72.5	0.8	-	-	-	-	47.0M	5.0	34.2	2.6	-	-
PLAINFIELD	23.9	- 6.3	29.4	- 0.5	41.8	2.5	50.4	0.8	59.3	- 1.1	68.4	- 0.7	74.0	0.0	72.6	0.7	66.6	- 0.9	53.6	- 0.5	50.0	6.9	35.7	2.7	52.2	0.5
PLEASANTVILLE	27.2	- 5.8	32.3	- 1.1	41.6	1.0	49.4	0.3	59.4	- 0.2	69.4	0.4	74.9	1.6	73.6	1.5	65.6	- 0.6	54.8	- 0.3	49.4M	4.3	36.9M	1.9	52.9	0.3
RIDGEFIELD	23.4	- 5.8	28.4	- 1.6	40.6	1.8	50.1	1.2	59.2	- 1.1	68.3	- 0.7	75.4	1.5	73.4	1.4	66.8	1.3	53.9	0.0	49.5	6.3	35.2	3.3	52.1	0.7
RUNNEMEDE	-	-	31.9	-	45.1	-	52.2	-	61.2	-	69.8	-	75.0	-	73.2	-	65.8	-	53.8	-	50.0	-	36.3	-	-	-
RUNYON	21.8	- 7.9	27.3	- 3.3	42.2	2.9	47.0	- 1.4	57.2	- 2.7	67.4	- 1.5	75.0	1.9	-	-	65.6	0.9	52.7	- 0.2	-	-	32.5M	1.1	-	-
RUTHERFORD	24.2	-	28.7	-	41.8	-	51.1	-	60.0	-	69.2	-	76.4	-	74.9	-	68.8	-	56.3	-	51.2	-	36.5	-	53.3	-
SANDY HOOK	26.8	- 4.5	30.4	- 1.7	41.2	1.9	49.2	0.9	58.3	- 0.1	68.8	1.0	76.8	3.3	74.4	1.9	68.6	1.1	56.4	- 0.3	52.2	6.4	38.4	3.2	53.5	1.1
SOMERVILLE	23.2	- 6.1	29.0	- 1.0	42.8	3.8	51.0	1.4	60.8	- 0.1	69.1	- 0.2	74.4	0.4	73.0	0.7	66.2	0.3	53.3	- 0.9	49.3	6.4	33.5	0.9	52.2	0.6
SUSSEX	19.7	- 7.3	24.4	- 2.6	39.6	2.6	50.0	1.4	59.3	- 0.5	67.8	- 0.1	73.0	0.6	71.9	1.8	64.5	0.2	51.5	- 1.3	47.5	6.0	32.2	2.2	50.1	0.3
TRENTON NO 2	25.6	- 6.3	31.6	- 0.1	43.5	3.2	51.4	0.8	61.4	- 1.4	70.4	- 0.9	76.3	0.8	72.3	1.2	67.6	0.8	54.7	- 0.2	50.4	5.6	35.9	2.0	53.4	0.2
TRENTON WB CITY	25.5	- 5.0	31.2	0.5	43.2	4.1	51.3	1.5	61.1	- 0.0	69.8	0.3	76.2	1.7	74.2	1.2	67.5	0.6	54.8	- 0.8	51.2	6.8	37.0	2.6	53.6	1.1
TUCKERTON 1 S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.7	5.0	39.2M	0.0	-	-	-
WOODSTOWN 2 NW	27.6	-	33.1	-	42.8	-	50.2	-	60.9	-	70.0	-	74.4	-	73.6	-	66.7	-	53.8	-	49.3	-	37.6	-	53.3	-

See reference notes following Station Index.

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

NEW JERSEY
1948

Table 2

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure
ATLANTIC CITY WB	8.14	4.65	3.36	-.12	3.48	-.12	3.13	.14	8.80	5.75	4.21	1.17	4.08	.15	8.23	3.74	0.64	-2.01	3.19	-.01	8.87	6.05	6.07	2.13	62.20	21.52
BASS RIVER STATE FRST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SELLEPLAIN	8.02	4.49	2.05	-1.29	3.25	-.57	3.32	-.28	10.06	6.74	6.03	2.84	4.08	-.11	8.04	3.56	1.28	-2.35	5.67	2.31	7.67	4.92	7.48	3.94	66.95	24.20
SELMAR	4.46	-	2.71	-	4.24	-	3.60	-	7.70	-	5.51	-	4.50	-	6.70	-	0.56	-	3.54	-	5.25	-	6.55	-	55.32	-
SELVIDERE	3.94	.27	2.83	-.67	4.50	.68	4.08	.37	7.69	4.01	5.40	.72	4.24	-.64	4.55	-.27	1.23	-2.55	1.94	-1.69	4.36	.98	6.73	2.99	51.13	4.20
SERLIN 1 W	4.51	-	2.08	-	3.01	-	4.09	-	8.68	-	2.79	-	1.29	-	3.86	-	1.13	-	1.99	-	4.23	-	6.12	-	43.78	-
BOONTON	4.06	.73	2.28	-1.01	2.99	-.57	3.86	.14	6.47	2.68	5.28	1.48	3.82	-.52	6.06	1.61	0.26	-3.86	2.29	-1.25	4.19	.59	6.69	3.41	48.25	3.43
BRIDGETON	5.67	2.15	3.16	-.32	3.00	-1.06	3.76	.36	10.83	7.33	3.05	-.61	4.43	.10	6.53	1.89	1.06	-2.44	2.36	-1.01	6.99	4.17	6.71	3.25	57.55	13.81
BRIDGETON NO 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROOKLAWN	4.57	-	1.95	-	2.87	-	3.41	-	5.89	-	3.23	-	3.76	-	4.46	-	1.28	-	1.33	-	4.50	-	5.13	-	42.38	-
BURLINGTON	6.16	2.73	2.75	-.51	3.04	-.75	3.20	-.54	6.57	2.77	3.61	-.41	2.14	-2.36	4.10	-1.27	1.68	-2.11	1.95	-1.53	3.69	.52	6.08	2.30	44.98	-1.16
CANISTEAR RESERVOIR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANOE SROOK	4.28	.49	2.32	-.46	3.54	-1.06	4.32	.43	10.12	6.61	6.97	2.63	5.12	.86	5.38	.12	0.56	-4.30	2.82	-.82	3.47	-.36	6.88	3.82	55.78	7.96
CANTON	5.40	-	3.63	-	3.09	-	3.66	-	10.69	-	3.39	-	1.62	-	5.81	-	0.91	-	2.01	-	6.07	-	6.81	-	53.09	-
CAPE MAY	9.99	6.59	3.15	-.03	3.42	-.42	2.71	-.39	7.35	4.47	3.55	.48	4.19	.66	8.45	3.91	0.51	-2.58	5.69	2.65	6.51	3.87	-	-	-	-
CEDAR GROVE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHARLOTTEBURG	4.61	.96	2.80	-.84	3.48	-.58	3.80	-.34	7.56	3.64	4.45	.09	2.73	-1.93	3.98	-.65	0.67	-3.82	2.14	-2.10	4.75	.97	7.36	3.45	48.33	-1.15
CHATHAM	4.12	.12	2.17	-1.36	3.86	-.23	4.06	-.10	9.66	5.94	6.13	1.95	5.23	.52	5.43	-.55	0.43	-4.05	2.74	-1.06	3.41	-.07	6.57	2.71	53.81	4.82
CHATSWORTH	5.47	-	2.76	-	3.99	-	3.85	-	9.10	-	3.76	-	5.06	-	10.87	-	1.02	-	2.40	-	5.08	-	4.96	-	58.32	-
CLAYTON	5.59	2.17	2.90	-.48	3.80	-.18	4.02	-.42	8.96	5.77	4.29	.57	2.12	-2.44	9.28	4.14	1.29	-2.20	2.00	-1.30	5.65	2.79	6.24	2.71	56.14	12.33
CLINTON	3.94	-	2.22	-	3.37	-	3.86	-	9.05	-	6.70	-	3.46	-	4.85	-	2.05	-	1.27	-	3.68	-	6.13	-	50.58	-
CULVERS LAKE	3.14	.03	1.82	-.98	3.27	-.04	3.94	.45	6.73	3.32	5.66	.92	2.08	-2.39	4.11	-.42	0.15	-4.03	1.72	-1.94	4.57	1.38	6.44	3.28	43.63	-.42
DEEPWATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELIZABETH	5.04	1.61	2.78	-1.04	3.03	-1.04	3.87	.19	9.56	5.83	6.96	3.20	6.20	1.25	5.89	1.52	1.17	-2.88	2.01	-1.70	3.06	-.18	7.05	3.37	56.62	10.13
ELIZABETHPORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESSEX FELS	4.55	-	2.40	-	4.49	-	4.83	-	8.70	-	11.56	-	3.12	-	6.53	-	0.49	-	2.98	-	4.37	-	7.92	-	61.94	-
FLEMINGTON	3.51	-.07	2.34	-.87	3.31	-.45	3.20	-.42	8.80	5.13	6.86	2.92	2.58	-2.51	5.59	.85	1.49	-2.30	1.28	-2.16	4.42	1.21	6.43	2.95	49.81	4.28
FORTESCUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FREEMOLD	4.78	.82	2.43	-1.36	4.22	-.27	3.45	-.23	9.60	6.00	5.64	1.83	4.40	-.29	6.58	2.09	0.96	-3.42	2.50	-1.24	4.52	.59	6.27	2.75	55.35	7.27
GLASSBORO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREAT MEADOWS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENWOOD LAKE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMMONTON	4.81	.99	4.51	1.21	3.47	-.50	5.56	1.74	9.41	5.56	4.04	.19	5.20	-.62	10.63	5.94	0.64	-2.92	4.82	1.23	6.93	3.76	8.32	4.96	68.34	22.78
HIGHTSTOWN	4.20	.79	2.23	-1.04	4.54	.77	3.12	-.70	6.71	2.99	5.76	1.76	6.23	1.39	4.71	.07	1.91	-1.90	1.63	-2.01	3.43	.17	6.17	2.88	50.64	5.17
INDIAN MILLS 2 W	5.73	1.86	2.59	-.78	3.27	-.74	3.84	.23	9.70	6.45	4.76	.54	2.68	-1.82	7.75	2.01	1.93	-2.04	2.26	-1.23	4.90	1.78	6.04	2.26	55.45	8.52
IRVINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JERSEY CITY	4.70	1.16	1.92	-1.59	2.87	-1.10	2.94	-.88	-	-	5.80	2.11	5.28	1.00	2.71	-1.73	1.44	-2.28	1.67	-1.81	3.56	.40	5.69	2.25	-	-
LAKEHURST AIRPORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAKEWOOD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAMBERTVILLE	4.23	.68	2.34	-.89	4.20	.42	3.18	-.55	9.37	5.47	6.45	2.37	2.47	-2.28	3.54	-1.09	2.78	-1.59	1.47	-1.98	4.40	1.18	6.42	2.88	50.15	4.82
LAYTON 3 NW	2.72	-.22	1.86	-.84	3.19	-.17	5.26	1.73	5.39	2.09	5.67	1.40	3.88	-.55	3.78	-.39	0.57	-3.34	1.31	-2.29	5.42	2.27	6.23	3.01	45.28	2.80
LITTLE FALLS WATER CO	4.27	.56	1.88	-1.51	3.46	-.31	3.57	-.65	7.21	3.40	7.38	3.21	4.75	.33	5.07	.28	0.36	-3.86	2.16	-2.00	3.50	.03	6.48	2.81	50.09	2.29
LONG BRANCH	5.55	1.43	2.82	-.77	4.22	-.10	3.57	-.65	9.07	5.83	6.08	2.18	5.49	.90	5.41	.60	0.83	-2.96	2.61	-.95	4.68	1.29	6.49	2.86	46.82	9.86
LONG VALLEY	3.15	-.05	2.62	-.12	4.19	-.27	4.54	.89	7.69	3.99	5.19	.64	4.06	-1.40	2.72	-2.31	0.90	-3.55	2.73	-.71	4.15	-.33	7.00	3.76	48.94	1.08
LUMBERTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MACOPIN INTAKE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANVILLE	3.44	-	1.35	-	3.20	-	3.45	-	8.62	-	8.28	-	4.10	-	5.16	-	0.									

TEMPERATURE EXTREMES AND FREEZE DATA

NEW JERSEY
1948

Table 3

Station	Highest	Date	Lowest	Date	Last spring minimum of			First fall minimum of			No. of days between dates		
					24° or below	28° or below	32° or below	32° or below	28° or below	24° or below	24° or below	28° or below	32° or below
ATLANTIC CITY WB	97	8-29+	4	1-31	3-13 (21°)	3-29 (27°)	4-10 (32°)	9-22 (28°)	9-22 (28°)	12-25 (15°)	287	177	165
BELLEPLAIN	101	8-27	- 7	1-19	3-29 (22°)	4-29 (27°)	4-30 (32°)	9-23 (32°)	10-19 (24°)	10-19 (24°)	204	173	146
BELVIDERE	103	8-26	-11	1-19	3-29 (23°)	4- 4 (28°)	4-18 (29°)	10-19 (26°)	10-19 (26°)	11-30 (24°)	246	198	184
BOONTON	100	8-27	-11	1-19	3-16 (24°)	4-18 (26°)	4-28 (32°)	10-16 (30°)	10-19 (25°)	10-20 (24°)	218	184	171
BRIDGETON	97	8-26	3	1-31	3-14 (20°)	3-29 (25°)	4-29 (31°)	10-19 (30°)	11-28 (25°)	12-11 (24°)	272	244	173
BURLINGTON	102	8-26	5	1-24+	3-14 (17°)	3-29 (25°)	4-16 (32°)	10-19 (30°)	11-26 (28°)	12-21 (24°)	282	242	186
CANOE BROOK	102	8-27	-22	1-19	4-18 (23°)	4-23 (26°)	5- 9 (29°)	10- 4 (30°)	10-19 (19°)	10-19 (19°)	184	179	148
CAPE MAY	95+	8-28	-	-	3-26 (23°)	3-26 (23°)	4-29 (32°)	-	-	-	-	-	-
CHARLOTTEBURG	97	8-26	-19	1-19	4-18 (21°)	4-23 (27°)	5- 9 (32°)	10- 4 (32°)	10-16 (25°)	10-19 (18°)	184	176	148
CHATSWORTH	100	8-26	-10	1-19+	4-23 (24°)	4-29 (27°)	5- 9 (30°)	10- 6 (30°)	10-16 (28°)	10-19 (21°)	179	170	150
CLAYTON	106	8-26	- 2	1-19	3-29 (24°)	3-29 (24°)	4-29 (30°)	10-19 (28°)	10-19 (28°)	12- 2 (24°)	248	204	173
ELIZABETH	103	8-26	- 6	1-19	3-29 (22°)	4- 4 (28°)	4-23 (31°)	10-19 (27°)	10-19 (27°)	11-30 (24°)	246	198	179
FLEMINGTON	102	8-26	-14	12-27	3-29 (21°)	4-23 (27°)	5- 9 (29°)	10-16 (31°)	10-19 (21°)	10-19 (21°)	204	179	160
FREEHOLD	100	8-26+	- 6	1-19	3-29 (21°)	3-29 (21°)	4-23 (31°)	10-19 (27°)	10-19 (27°)	12-11 (23°)	257	204	179
HAMMONTON	102	8-26	-	-	3-29 (24°)	4-18 (27°)	4-29 (30°)	10-16 (32°)	10-19 (26°)	12-21 (16°)	283	184	170
HIGHTSTOWN	100	8-26	-10	1-19	3-29 (23°)	3-29 (23°)	4-29 (31°)	10-16 (32°)	10-19 (25°)	12- 2 (23°)	248	204	170
INDIAN MILLS 2 W	101	8-26+	-10	1-19	4-23 (24°)	4-29 (26°)	5- 9 (32°)	10-16 (31°)	10-19 (21°)	10-19 (21°)	179	173	160
JERSEY CITY	100	8-26	- 1	1-31	3-13 (17°)	3-29 (25°)	4-10 (30°)	10-19 (32°)	12- 1 (26°)	12-19 (23°)	278	247	192
LAKEWOOD	-	-	-	-	-	-	5- 9 (32°)	10-15 (30°)	10-16 (27°)	10-19 (22°)	-	-	159
LAMBERTVILLE	98	8-27+	- 7	1-19	3-29 (22°)	4-18 (26°)	4-23 (30°)	10-19 (25°)	10-19 (25°)	11-30 (23°)	246	215	179
LAYTON 3 NW	101	8-26	-21	2- 1	4-11 (20°)	4- 2 (25°)	5- 9 (30°)	10- 4 (25°)	10- 4 (25°)	10-19 (20°)	191	185	148
LITTLE FALLS WATER CO	100	8-27+	-10	1-19	3-29 (24°)	4-18 (28°)	4-23 (32°)	10-16 (32°)	10-19 (25°)	11-30 (23°)	246	184	176
LONG BRANCH	101	8-26	0	1-19	3-14 (23°)	3-29 (27°)	4-23 (32°)	10-19 (29°)	12- 2 (28°)	12-20 (20°)	281	248	179
LONG VALLEY	100	8-27	-13	12-27	3-29 (20°)	4-23 (28°)	5-10 (29°)	10- 4 (32°)	10-16 (26°)	10-19 (20°)	204	176	147
MILLVILLE AIRPORT	101	8-26	- 7	1-19	3-29 (22°)	3-29 (22°)	4-29 (29°)	10-18 (32°)	10-19 (26°)	12- 2 (24°)	248	204	172
MOORESTOWN	98	8-26+	0	1-31	3-14 (19°)	3-29 (25°)	4-29 (32°)	10-18 (32°)	10-19 (26°)	12- 2 (24°)	263	204	172
MORRIS PLAINS	101	8-27	-12	1-31	3-29 (23°)	4-11 (26°)	5- 9 (29°)	10-16 (29°)	10-19 (24°)	10-19 (24°)	204	191	160
NEWARK WB AIRPORT	103	8-26	1	1-31	3-14 (23°)	3-29 (27°)	4-10 (32°)	10-19 (30°)	11-30 (28°)	12-19 (24°)	280	246	192
NEW BRUNSWICK	99	8-26	- 4	1-19+	3-29 (23°)	3-29 (23°)	4-23 (32°)	10-16 (32°)	10-19 (28°)	12- 2 (24°)	248	204	176
NEWTON	99	8-27	-21	1-19	4-18 (23°)	4-18 (23°)	5- 9 (31°)	10- 4 (30°)	10-16 (26°)	10-19 (20°)	184	181	148
PATERSON	-	-	-	-	3-14 (22°)	3-29 (25°)	4-10 (31°)	10-19 (29°)	12-16 (26°)	12-19 (23°)	280	262	192
PEMBERTON 1 E	97	8-26+	-	1-19+	3-29 (23°)	4-23 (28°)	5- 9 (32°)	10-16 (31°)	10-19 (25°)	12- 2 (22°)	248	179	160
PHILLIPSBURG	100	8-26+	-	-	3-29 (24°)	4-18 (28°)	4-23 (32°)	10-16 (31°)	10-19 (23°)	10-19 (23°)	204	184	176
PLAINFIELD	101	8-26	- 4	1-19+	3-29 (23°)	3-29 (23°)	4-23 (31°)	10-16 (31°)	10-19 (25°)	12- 2 (22°)	248	204	176
PLEASANTVILLE	102	8-27	- 1	2- 7+	4-29 (24°)	4-29 (24°)	5- 9 (31°)	10-16 (31°)	10-19 (25°)	12-11 (22°)	226	173	160
RIDGEFIELD	102	8-26	- 4	1-31	3-29 (22°)	3-29 (22°)	4-18 (32°)	10-18 (31°)	10-19 (26°)	12-11 (24°)	257	204	183
RUNNEMEDE	99	8-28	-	-	3-29 (24°)	4-18 (28°)	4-29 (31°)	10-18 (32°)	10-19 (26°)	12- 2 (23°)	248	184	172
RUNYON	101	8-26	-20	1-19	4-23 (24°)	5- 9 (28°)	5- 9 (28°)	10-16 (27°)	10-19 (18°)	12- 2 (15°)	223	163	160
RUTHERFORD	103	8-26	3	1-19	3-14 (20°)	3-29 (25°)	4-18 (31°)	10-19 (28°)	10-19 (28°)	12-19 (17°)	280	204	184
SANDY HOOK	98	8-28	4	1-31	3-13 (19°)	3-29 (28°)	3-29 (28°)	12-11 (30°)	12-19 (28°)	12-21 (24°)	283	265	257
SOMERVILLE	100	8-26	-11	1-19	3-29 (21°)	4-11 (28°)	5- 9 (31°)	10-16 (31°)	10-19 (23°)	10-19 (23°)	204	191	160
SUSSEX	99	8-26	-20	1-19	3-29 (20°)	4-11 (25°)	5- 9 (32°)	10-16 (27°)	10-16 (27°)	10-19 (21°)	204	188	160
TRENTON NO 2	-	-	1	1-31	3-14 (22°)	3-29 (25°)	4-18 (32°)	10-19 (29°)	11-30 (28°)	12-20 (22°)	281	246	184
TRENTON WB CITY	99	8-26	2	1-31	3-13 (19°)	3-29 (27°)	4-10 (32°)	10-19 (32°)	12-11 (28°)	12-20 (24°)	276	257	192
TUCKERTON 1 S	-	-	-	-	-	-	-	10-19 (28°)	10-19 (28°)	12-11 (22°)	-	-	-
WOODSTOWN 2 NW	98	8-28+	0	2- 7	3-13 (21°)	4- 3 (28°)	4-28 (30°)	10-19 (28°)	10-19 (28°)	12-11 (22°)	272	199	227

See reference notes following Station Index

TOTAL EVAPORATION AND WIND MOVEMENT

NEW JERSEY
1948

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Departure fr. normal
CANOE BROOK	EVAP					3.932	3.631	4.130	3.092	2.944	1.316				
	WIND					452	98	61	83	84	172				
PLEASANTVILLE	EVAP				3.731	4.167	3.724	5.372	4.316	3.730	2.156				
	WIND				1196	1477	775	831	558	497	1291				
RUNYON	EVAP					3.805	3.470	4.245	3.640	4.570	2.455				
	WIND					595	187	168	313	127	552				

See reference notes following Station Index.

STATION INDEX

NEW JERSEY
1948

Station	Former station name	Index No.	County	Drainage	Latitude	Longitude	Elevation above mean sea level (feet)	Years of record			Opened or closed during year		Refer to tables
								Temperature	Precipitation	Evaporation	Month opened	Month closed	
ATLANTIC CITY WB	BASS RIVER	0325	ATLANTIC	COASTAL	39 22	74 25	8	75	75				1 2 3
BASS RIVER STATE FOREST		0528	BURLINGTON	COASTAL	39 35	74 28			2				2
BELLEPLAIN		0690	CAPE MAY	COASTAL	39 16	74 52	49	54	54				1 2 3
BELMAR		0721	MONMOUTH	COASTAL	40 10	74 02	19	7	7				2
BELVIDERE		0729	WARREN	DELAWARE	40 50	75 05	289	56	56				1 2 3
BERLIN 1 MI W		0787	CAMDEN	MULLICA	39 48	74 56	70		7				2
BOONTON		0907	MORRIS	PASSAIC	40 54	74 24	280	40	58				1 2 3
BRIDGETON		1028	CUMBERLAND	DELAWARE	39 26	75 14	30	60	65				2
BRIDGETON NO 2		1033	CUMBERLAND	DELAWARE	39 30	75 14			9				2
BROOKLAWN		1106	CAMDEN	DELAWARE	39 53	75 07	30	7	7				2
BURLINGTON		1211	BURLINGTON	DELAWARE	40 04	74 51	12	36	62				1 2 3
CANISTEAR RESERVOIR		1327	SUSSEX	PASSAIC	41 07	74 30	1040		8				2
CANOE BROOK		1335	ESSEX	PASSAIC	40 45	74 21	180	18	18	18			1 2 3 4
CANTON		1343	SALEM	DELAWARE	39 28	75 25	8		2				2
CAPE MAY		1351	CAPE MAY	COASTAL	38 56	74 57	17	23	60				1 2 3
CEDAR GROVE		1472	ESSEX	PASSAIC	40 52	74 13	400		8				2
CHARLOTTEBURG		1582	PASSAIC	PASSAIC	41 02	74 26	760	56	56				1 2 3
CHATHAM		1590	MORRIS	PASSAIC	40 44	74 23	185	44	44				2
CHATSWORTH		1598	BURLINGTON	COASTAL	39 48	74 32	90	8	8				1 2 3
CLAYTON		1708	GLOUCESTER	MAURICE	39 39	75 06	120	35	55				1 2 3
CLINTON		1749	HUNTERDON	RARITAN	40 38	74 55	300		5				2
CULVERS LAKE		2130	SUSSEX	DELAWARE	41 10	74 47	760		47				2
DEEPWATER		2209	SALEM	DELAWARE	39 41	75 30			8				2
ELIZABETH		2644	UNION	COASTAL	40 40	74 14	33	69	69				1 2 3
ELIZABETHPORT		2652	UNION	PASSAIC	40 39	74 12	30		9				2
ESSEX FIELDS	FLEMINGTON 2 MI NE	2773	ESSEX	PASSAIC	40 49	74 17	250		3				2
FLEMINGTON 1 MI NE		3029	HUNTERDON	RARITAN	40 30	74 52	134	51	62				1 2 3
FORTESCUE		3102	CUMBERLAND	DELAWARE	39 14	75 10	5		4				2
FREEHOLD		3181	MONMOUTH	RARITAN	40 15	74 17	194	44	44				1 2 3
GLASSBORO		3291	GLOUCESTER	DELAWARE	39 42	75 07			8				2
GREAT MEADOWS		3416	WARREN	RARITAN	40 52	74 55	510		4				2
GREENWOOD LAKE		3516	PASSAIC	PASSAIC	41 09	74 20	660		8				2
HAMMONTON		3662	ATLANTIC	MULLICA	39 38	74 48	95	16	42				1 2 3
HIGHTSTOWN		3951	MERCER	RARITAN	40 16	74 31	100	52	55				1 2 3
HIGHTSTOWN PUMPING STATION		3956	MERCER	RARITAN	40 17	74 32	75		5				2
INDIAN MILLS 2 MI W		4229	BURLINGTON	MULLICA	39 48	74 45	100	58	59				1 2 3
IRVINGTON		4260	ESSEX	COASTAL	40 43	74 15			9				2
JERSEY CITY		4339	HUDSON	COASTAL	40 44	74 04	135	50	50				1 2 3
LAKEHURST AIRPORT		4596	OCEAN	COASTAL	40 02	74 19	128		8				2
LAKEWOOD 1 MI ENE		4627	OCEAN	COASTAL	40 06	74 13	54	44	44				1 2 3
LAMBERTVILLE	LITTLE FALLS	4635	HUNTERDON	DELAWARE	40 22	74 57	75	61	61				1 2 3
LAYTON 3 MI NW		4735	SUSSEX	DELAWARE	41 13	74 50	480	47	47				1 2 3
LITTLE FALLS WATER CO		4887	PASSAIC	PASSAIC	40 53	74 14	157	34	45				1 2 3
LONG BRANCH		4987	MONMOUTH	COASTAL	40 18	74 00	34	40	40				1 2 3
LONG VALLEY		5003	MORRIS	RARITAN	40 48	74 46	660	18	18				1 2 3
LUMBERTON		5055	BURLINGTON	DELAWARE	39 58	74 48	25		4				2
MACOPIN INTAKE		5071	PASSAIC	PASSAIC	41 01	74 24			8				2
MANVILLE		5197	SOMERSET	RARITAN	40 33	74 34	50		8				2
MARLBORO		5244	MONMOUTH	COASTAL	40 20	74 14	120		8				2
MARLTON 1 MI W		5252	BURLINGTON	DELAWARE	39 54	74 55	90		7				2
MAYS LANDING	MILLVILLE 2 MI SW	5346	ATLANTIC	GT EGG HARBOR	39 27	74 44	50		4				2
MIDLAND PARK		5503	BERGEN	PASSAIC	40 59	74 09	210		2				1 2 3
MILLVILLE		5576	CUMBERLAND	MAURICE	39 24	75 03	60		8				2
MILLVILLE AIRPORT		5581	CUMBERLAND	MAURICE	39 22	75 05	76	2	2				1 2 3
MILTON		5597	MORRIS	PASSAIC	41 01	74 32			8				2
MOORESTOWN		5728	BURLINGTON	DELAWARE	39 58	74 57	62	85	85				1 2 3
MORRIS PLAINS 1 MI W		5769	MORRIS	PASSAIC	40 50	74 30	400	3	7				1 2 3
NEWARK WB AIRPORT		6026	ESSEX	COASTAL	40 42	74 10	11	49	94				1 2 3
NEW BRUNSWICK		6062	MIDDLESEX	RARITAN	40 29	74 27	99	91	94				1 2 3
NEW MILFORD		6146	BERGEN	RACKENSACK	40 57	74 02	12		30				2
NEWTON		6177	SUSSEX	DELAWARE	41 03	75 45	769	65	65				1 2 3
OAK RIDGE RESERVOIR		6460	PASSAIC	PASSAIC	41 02	74 30	870		8				2
ORANGE		6560	ESSEX	PASSAIC	40 47	74 14	140		8				2
PATERSON		6775	PASSAIC	PASSAIC	40 55	74 10	100	78	77				1 2 3
PEMBERTON 1 MI E		6843	BURLINGTON	DELAWARE	39 58	74 41	60	19	19				1 2 3
PHILLIPSBURG		6974	WARREN	DELAWARE	40 41	75 12	182	57	65				1 2 3
PHILLIPSBURG BRIDGE		6979	WARREN	DELAWARE	40 42	75 12			9				2
PLAINFIELD		7079	UNION	RARITAN	40 37	74 25	120	57	60				1 2 3
PLAINSBO		7095	MIDDLESEX	RARITAN	40 19	74 36	110		7				2
PLEASANTVILLE		7131	ATLANTIC	COASTAL	39 25	74 31	8	25	50	25			1 2 3 4
QUAKERTOWN		7372	HUNTERDON	DELAWARE	40 34	74 57	645		9				2
RAHWAY		7393	UNION	RAHWAY	40 36	74 15	20		9				2
RIDGEFIELD		7545	BERGEN	HACKENSACK	40 50	74 00	80	31	31				1 2 3
RINGWOOD		7587	PASSAIC	PASSAIC	41 08	74 16	305		8				2
RUNNEMEDEF 1 MI W		7817	CAMDEN	DELAWARE	39 51	75 04	42	1	1				1 2 3
RUNYON		7825	MIDDLESEX	COASTAL	40 26	74 20	18	24	25	25			1 2 3 4
RUTHERFORD		7833	BERGEN	PASSAIC	40 49	74 07	51	4	4				1 2 3
SANDY HOOK		7869	MONMOUTH	COASTAL	40 28	74 01	22	50	50				1 2 3
SOMERVILLE		8194	SOMERSET	RARITAN	40 35	74 18	65	62	65				1 2 3
SPLIT ROCK POND		8402	MILTON	ROCKAWAY	40 58	74 28			8				2
SPRINGFIELD	SWEDESBO	8423	UNION	COASTAL	40 43	74 18			8				2
SUSSEX		8644	SUSSEX	HUDSON	41 13	74 36	450	50	53				1 2 3
SWEDESBO		8680	GLOUCESTER	DELAWARE	39 45	75 19	75		2				2
SWEDESBO 5 MI NW		8685	GLOUCESTER	DELAWARE	39 47	75 24	10		2				2
TOMS RIVER		8816	OCEAN	COASTAL	39 57	74 14	33		27				2
TRENTON NO 2	TRENTON	8878	MERCER	DELAWARE	40 14	74 46	105	18	18				1 2 3
TRENTON WB CITY		8883	MERCER	DELAWARE	40 13	74 46	56	76	76				1 2 3
TUCKERTON		8889	OCEAN	COASTAL	39 36	74 20	23	49	54				2
VINELAND		9135	CUMBERLAND	MAURICE	39 29	75 01	110	58	68				2
WANAQUE RAYMOND DAM		9187	PASSAIC	PASSAIC	41 02	74 18	320		8				2
WATCHUNG		9271	UNION	PASSAIC	40 40	74 25			4				2
WESTFIELD		9455	UNION	RAHWAY	40 39	74 21	135		9				2
WOODCLIFF LAKE		9832	BERGEN	HACKENSACK	41 01	74 03	103		30				2
WOODSTOWN 2 MI NW		9910	SALEM	DELAWARE	39 40	75 20	16	2	12				1 2 3

See reference notes following Station Index

REFERENCE NOTES

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F; precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 4.

The four digit identification numbers in the Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of Climatological Data.

- No record.
- + Also later dates or months.
- M 1 to 10 days' record missing; see monthly Climatological Data for detailed daily record.

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